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

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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

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

SECTION A - PROPERTY INFORMATION FOR INSURANCE COMPA						ANCE COMPANY USE		
A1. Building Owner's Name RUSSELL A. and CATHERINE L. CAREY Policy Number:								
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: 1386 BAYPORT AVENUE							AIC Number:	
City MARCO ISLAND								
A3. Property Descript LOT 7, BLOCK 9	•				•		R COUNTY, FLORIDA.	
A4. Building Use (e.g	ı., Residenti	al, Non-Residential,	Addition,	Accessory, 6	etc.) RESI	DENTIAL		
A5. Latitude/Longitud	ie: Lat	N 25°56'46.33"	Long.	W 81°42'44.7	'8" Horizontal [Datum: NAD 1	927 × NAD 1983	
A6. Attach at least 2 ¡	photographs	s of the building if the	e Certific	ate is being u	sed to obtain flood	insurance.		
A7. Building Diagram	Number _	1B						
A8. For a building witl	h a crawlspa	ace or enclosure(s):						
a) Square footag	je of crawlsp	oace or enclosure(s)			N/A sq ft			
b) Number of per	manent floo	od openings in the cra	awlspace	e or enclosure	e(s) within 1.0 foot a	bove adjacent gra	ide N/A	
c) Total net area	of flood ope	enings in A8.b		N/A sq in				
d) Engineered flo	ood opening	s? 🗌 Yes 🗵 N	lo					
A9. For a building with	n an attache	d garage:						
a) Square footage	a) Square footage of attached garage 454.00 sq ft							
b) Number of per	b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 3							
c) Total net area	c) Total net area of flood openings in A9.b 231.00 *sq in							
d) Engineered flo	od openings	s? ⊠ Yes □ N	lo					
		CTION B – FLOOD I	NSURA	NCE RATE	MAP (FIRM) INFO	RMATION	<u> </u>	
B1. NFIP Community CITY OF MARC		•		B2. County	Name COLLIER		B3. State Florida	
		120420						
B4. Map/Panel B Number	Number Date Effective/ Zone(s) (Zone AO, use Base Flood Depth)							
12021C 0829 H 05-16-2012 Revised Date 05-16-2012 AE 8.0' (N.A.V.D. 1988)								
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:								
☐ FIS Profile ⊠ FIRM ☐ Community Determined ☐ Other/Source:								
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:								
B12. Is the building lo	B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No							
Designation Dat	te:		CBRS	☐ OPA				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or 1386 BAYPORT AVENUE	Policy Number:			
City Sta MARCO ISLAND Flo		P Code 145	Company NAIC Number	
SECTION C – BUILDING EL	.EVATION INFORMA	ATION (SURVEY RE	EQUIRED)	
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:				
 h) Lowest adjacent grade at lowest elevation of dec structural support 	ck or stairs, including		N/A × feet meters	
SECTION D – SURVEYOR	, ENGINEER, OR AF	RCHITECT CERTIF	ICATION	
This certification is to be signed and sealed by a land su I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un. Were latitude and longitude in Section A provided by a li	s my best efforts to int nder 18 U.S. Code, Se icensed land surveyor	erpret the data availa	ble. I understand that any false	
Certifier's Name DAVID C. HOLMAN (05.0298) Title LAND SURVEYOR	License Number PSM 6279	Digitally signed	Check here if attachments. Check here if attachments. Check here if attachments.	
Company Name A. TRIGO & ASSOCIATES, INC. Address 2223 TRADE CENTER WAY City NAPLES	Holman State Florida	Holman Date: 2021.01.21 15:07:58 -05'00' ZIP Code 34109	No. 62/9 STATE OF STATE OF STATE OF SURVEYOR SURVEY	
Copy all pages of this Elevation Certificate and all attachments (including type of equipment and location, per A9b. 3 SMART VENTS MODEL 1540-520, RATED A C2e. LOWEST EQUIPMENT IS AIR CONDITIONER POOL EQUIPMENT IS AT ELEV.6.6' (N.A.V.D.1988) CROWN OF ROAD OPPOSITE NORTHWEST PROPER CROWN OF ROAD INTERSECTION = 4.49' (N.A.V.D.1	er C2(e), if applicable) T 200 SQ. FT. EACH AND WATER HEATE RTY LINE = 4.66' (N.A	R AT ELEV. 9.1' (N.A		

ELEVATION CERTIFICATE

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

IMP	IPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY US						
Buil	ding Street Address (including Apt., Unit, Suite 1386 BAYPORT AVENUE	, and/or Bldg. No.) or	P.O. Route and Box	No.	Policy Number:		
City	RCO ISLAND	State Florida	ZIP Code 34145		Company NAIC	Number	
	SECTION E – BUILDING FOR Z	ELEVATION INFO			REQUIRED)		
con	For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters. E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below						
L1.	the highest adjacent grade (HAG) and the low a) Top of bottom floor (including basement, crawlspace, or enclosure) is	est adjacent grade (l	AG).	meters	_		
	b) Top of bottom floor (including basement, crawlspace, or enclosure) is			meters	s above or	below the LAG.	
E2.	For Building Diagrams 6–9 with permanent flot the next higher floor (elevation C2.b in the diagrams) of the building is	od openings provide	d in Section A Items 8	8 and/or		2 of Instructions),	
E3.	Attached garage (top of slab) is			meters	s 🔲 above or	below the HAG.	
E4.	Top of platform of machinery and/or equipment servicing the building is	nt	feet [meters	s above or	below the HAG.	
E5.	Zone AO only: If no flood depth number is available floodplain management ordinance? Yes		e bottom floor elevat own. The local offici				
	SECTION F - PROPERTY	OWNER (OR OWNE	R'S REPRESENTAT	TIVE) CE	RTIFICATION		
The	property owner or owner's authorized representuality-issued BFE) or Zone AO must sign her	ntative who complete re. The statements in	s Sections A, B, and Sections A, B, and E	E for Zo	ne A (without a f	EMA-issued or f my knowledge.	
Pro	perty Owner or Owner's Authorized Representa	ative's Name					
Add	Iress		City	Sta	ate	ZIP Code	
Sig	nature		Date	Tel	lephone		
Cor	nments						
					☐ Check I	nere if attachments.	

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, S 1386 BAYPORT AVENUE	Policy Number:			
City MARCO ISLAND	State Florida	ZIP Code 34145		Company NAIC Number
SECTION	ON G - COMMUNIT	TY INFORMATION (OPT	IONAL)	
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	Certificate. Comple			
G1. The information in Section C was takengineer, or architect who is authorized data in the Comments area below.)				
G2. A community official completed Sect or Zone AO.	ion E for a building	located in Zone A (withou	ıt a FEM <i>A</i>	A-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided fo	or community floodplain m	nanageme	ent purposes.
G4. Permit Number	G5. Date Permit	Issued		Pate Certificate of compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction	n Substantial Improve	ment	
G8. Elevation of as-built lowest floor (includin of the building:	g basement) –		feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site: _		feet	meters Datum
G10. Community's design flood elevation:	_		feet	meters Datum
Local Official's Name		Title Floodplai	n Coor	dinator
Community Name	_	Telephone		
City of Marco Islar	nd			
Signature		Date		
Comments (including type of equipment and lo	cation, per C2(e), if	applicable)		
REVIEV	VED			
By Kelli De	eFedericis at 3:	18 pm, Jan 21, 202	1	
				Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Ap 1386 BAYPORT AVENUE	Policy Number:		
City	State	ZIP Code	Company NAIC Number
MARCO ISLAND	Florida	34145	

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

Photo One Caption

FRONT VIEW

01/08/2021

Clear Photo One



Photo Two

Photo Two Caption LEFT SIDE VIEW 01/08/2021

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A 1386 BAYPORT AVENUE	Policy Number:		
City	Company NAIC Number		
MARCO ISLAND	Florida	34145	

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



Photo Three

Photo Three Caption REAR VIEW 01/08/2021 Clear Photo Three



Photo Four

Photo Four Caption RIGHT SIDE VIEW 01/08/2021

Clear Photo Four



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

ESR-2074

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Reissued 02/2021 This report is subject to renewal 02/2023.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 45— 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"



s use. n this

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ICC-ES Evaluation Report

ESR-2074

Reissued February 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART 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 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.

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:

- 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

TARI	E '	1M	ODE	L 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	$15^3/_4$ " $\times 7^3/_4$ "	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

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



FIGURE 1-SMART VENT: MODEL 1540-510

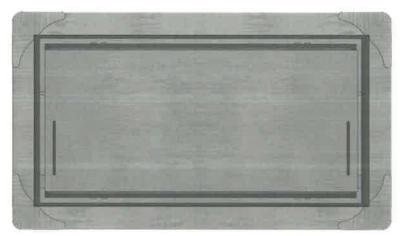


FIGURE 2—SMART VENT MODEL 1540-520



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

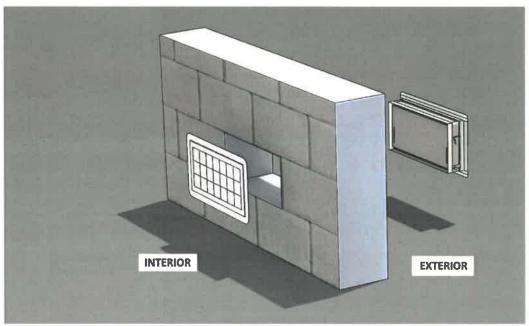


FIGURE 4—FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Reissued February 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00---OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code 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 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 evaluation report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

2.2 CRC:

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

This supplement expires concurrently with the evaluation report, reissued February 2021.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the evaluation 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 Florida Building Code—Building and the Florida Building Code—Residential.

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

This supplement expires concurrently with the evaluation report, reissued February 2021.

