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.

Policy Number: Company NAIC Number: ZIP Code 08758-1628 etc.) iial ntal Datum: NAD 1927 NAD 1983 pood insurance.
ZIP Code 08758-1628 etc.) ital ital Datum: NAD 1927 NAD 1983 pood insurance.
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oot above adjacent grade6
adjacent grade <u>n/a</u>
NFORMATION
B3. State
New Jersey
od Zone(s) B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
6
_

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Section	on A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route	and Box No.	Policy Number:
City State ZIP Co		Company NAIC Number
Waretown New Jersey 08758	1-1628	
SECTION C - BUILDING ELEVATION INFORMATION	ON (SURVEY R	
C1. Building elevations are based on: Construction Drawings* Building	ng Under Constru	uction* 🔀 Finished Construction
*A new Elevation Certificate will be required when construction of the building	is complete.	
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE Complete Items C2.a–h below according to the building diagram specified in Benchmark Utilized: RTCM-ID 0341 Vertical Datum:	item A7. in Puen	/AE, AR/A1-A30, AR/AH, AR/AO. to Rico only, enter meters.
Indicate elevation datum used for the elevations in items a) through h) below.		
☐ NGVD 1929 区 NAVD 1988 ☐ Other/Source:		
Datum used for building elevations must be the same as that used for the BF	E.	Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	3, 2	X feet meters
b) Top of the next higher floor	13, 5	X feet meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	X feet meters
d) Attached garage (top of slab)	N/A_,	X feet meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	8, 3	X feet meters
f) Lowest adjacent (finished) grade next to building (LAG)	2, 8	X feet meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>3</u> . <u>0</u>	X feet meters
b) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5. 2	X feet meters
SECTION D - SURVEYOR, ENGINEER, OR ARC	HITECT CERTI	FICATION
This certification is to be signed and sealed by a land surveyor, engineer, or arch I certify that the information on this Certificate represents my best efforts to interpstatement may be punishable by fine or imprisonment under 18 U.S. Code, Secti	on 1001.	
Were latitude and longitude in Section A provided by a licensed land surveyor?	⊻Yes □ No	Check here if attachments.
Certifier's Name License Number		
Joseph L. Lazok 37200		part (441)
Title Land Surveyor		100
Company Name		Place
Acre Land Surveying		Seal —— Here
Address 33 Stone Hill Road		nere
City State Cream Ridge New Jersey	ZIP Code 08514	101 egg 60
Signature Date Date	Telephone (732) 616-1422	
Copy all pages of this Elevation Certificate and all attachments for (1) community of	icial, (2) insuranc	e agent/company, and (3) building owne
Comments (including type of equipment and location, per C2(e), if applicable)		
1) Item C2a is the storage floor elevation. 2) Item C2b is the lowest living s conditioning units located on a raised deck. 4) Property located in Flood Z 34029C0414G, released January 30, 2015. 5) Latitude and Longitude obtain	ned by GPS. 4)-1	notes. 7) The furnace is at elevation
10.5 feet. 8) The water tank is at elevation 8.7 feet. 9) The electric meter is a	at elevation 9.0	feet.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	sponding information	from Section A.	FOR INSURANCE COMPANY	Y USE
Building Street Address (including Apt., Unit, Su	ite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:	
108 Bonita Road	_			, <u> </u>
City	State	ZIP Code	Company NAIC Number	
Waretown	New Jersey	08758-1628		
SECTION E - BUILDI	NG ELEVATION INFO R ZONE AO AND ZON	RMATION (SURVEY NE A (WITHOUT BFE)	OT REQUIRED)	
For Zones AO and A (without BFE), complete It complete Sections A, B,and C. For Items E1-E4 enter meters.	ome E1_E5. If the Certif	icate is intended to suppo	rt a LOMA or LOMR-F request, urement used. In Puerto Rico only,	1
E1. Provide elevation information for the follow the highest adjacent grade (HAG) and the	lowest adjacent grade (L	priate boxes to show whe AG).	ther the elevation is above or below	W
Top of bottom floor (including basement crawlspace, or enclosure) is		feetm	eters above or below the	HAG
 Top of bottom floor (including basemen crawlspace, or enclosure) is 		feet m		
E2. For Building Diagrams 6–9 with permanent the next higher floor (elevation C2.b in the diagrams) of the building is	t flood openings provide	d in Section A Items 8 and		
E3. Attached garage (top of slab) is		[] feet [] m	eters above or below the	HAG
E4. Top of platform of machinery and/or equipmoservicing the building is		feet _ m		
E5. Zone AO only: If no flood depth number is floodplain management ordinance?	available, is the top of the No Unkn	ne bottom floor elevated in own. The local official m	n accordance with the community's ust certify this information in Section	s on G.
SECTION F PROPER	TY OWNER (OR OWNE	R'S REPRESENTATIVE) CERTIFICATION	
Property Owner or Owner's authorized representation of the Property Owner or Owner's Authorized Representations Address		City	State ZIP Code	
Signature		Date	Telephone	
olg.tate.o				
Comments				
			Check here if attach	meni
			Check liele il attacit	

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre	sponding information fr	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Su	ite, and/or Bldg. No.) or P	O. Route and Box No.	Policy Number:
108 Bonita Road			
City	State	ZIP Code	Company NAIC Number
Waretown	New Jersey	08758-1628	
SECTIO	NG-COMMUNITY INFO	ORMATION (OPTIONA	AL)
engineer, or architect who is authorize	Certificate. Complete the er meters.	ion that has been signe	management ordinance can complete sign below. Check the measurement ed and sealed by a licensed surveyor, the the source and date of the elevation
data in the Comments area below.) G2. A community official completed Section or Zone AO.	on E for a building located	in Zone A (without a F	EMA-issued or community-issued BFE)
G3. The following information (Items G4-	G10) is provided for comr	munity floodplain mana	gement purposes.
G4. Permit Number	G5. Date Permit Issued	G	66. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction S	ubstantial Improvemen	t
G8. Etevation of as-built lowest floor (including of the building:	basement)		feet meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:		feet meters
G10. Community's design flood elevation:			feet meters Datum
Local Official's Name		Title	
Community Name		Telephone	
Signature		Date	
Comments (including type of equipment and lo	cation, per C2(e), if applic	cable)	
20			
			_
			☐ Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

IMPORTANT: in these spaces, copy the co	presponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 108 Bonita Road		Policy Number:	
City Waretown	State New Jersey	ZIP Code 08758-1628	Company NAIC Number

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



Photo Two Caption

Rear View

Form Page 5 of 6

BUILDING PHOTOGRAPHS

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: 108 Bonita Road Company NAIC Number ZIP Code State City

New Jersey

08758-1628

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.

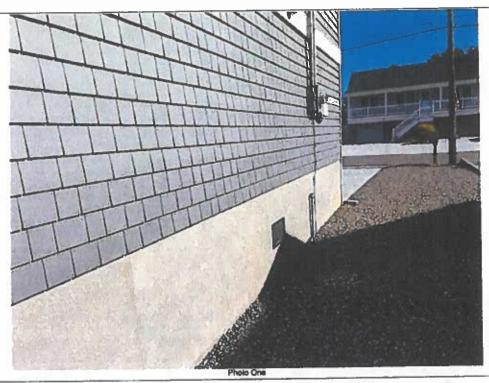


Photo One Caption

Waretown

Left Side View



Photo Two Caption

Enclosure area

Form Page 6 of 6



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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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ICCFS I valuation Reports are not to be constituted as representing aesthetics of the significant specifically addressed, not are they to be constituted as an endorsement of the significant of the report of executional tition for its use. There is no warranty by ICC Evaluation Service 11C express of implied a to that this logical matter in this report, or as to this product covered by the report.





- 400 square feet (37.2 m) 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

5.0 CONDITIONS OF USE

The Smart Vent® FVs described in this report comply with

5.1 The Smart Vent® FVs must be installed in accordance. a conflict, the instructions in this report govern52 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

6.0 EVIDENCE SUBMITTED

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

7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a tabel bearing the manufacturer's name

TABLE 1--MODEL 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 ⁵ / ₄ "	200
FloodVENT ^e Overhead Door	1540-52-	153/4" X 73/4"	200
SmartVENT* Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT	1540-570	14" X 83/2"	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 1/2"	200
SmartVENT® Stacker	1540-511	16" X 16"	400
FloodVent Stacker	1540-521	16" X 16"	400

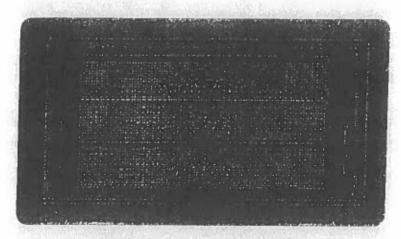


FIGURE 1-SMART VENT: MODEL 1540-510

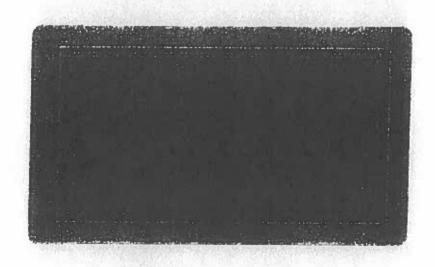


FIGURE 2 SMART VENT MODEL 1540-520

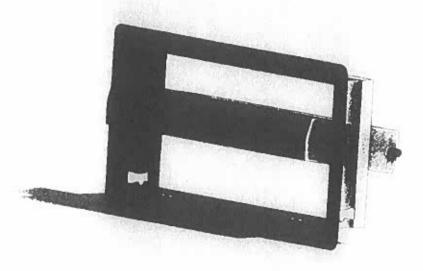


FIGURE 3 - SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ESR-2074 CBC and CRC Supplement

Issued February 2017 Revised November 2017

This report is subject to renewal February 2019

v/ww.icc-es.org ((800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 10-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 Floor Vents recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes moted

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 region. 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 GBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Seventy 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 7.9 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 a raluated under 2016 CRC Chapter R337, for use in the extends design and construction of new buildings focated in any Fire Hazard Seventy Zone within State Responsibility Areas of any Wildland-Urban Interface Fire Area

The products recognized in this supplement have not been evaluated the compliance with the International Wildland-Ordinan

This supplement expires committently with the master report, ressuled February, 2017 and revised November 2017







ESR-2074 FBC Supplement

Relissued February 2017 Revised November 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 I PITMAN, NEW JERSEY 0807 I (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 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 master 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 master report.

Use of the Smart Vent[®] Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Flurncane 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 master report, recisive February 2017 and revised November 2017.





ESR-2074

Reissued February 2017 Revised November 2017

This report is subject to renewal February 2019.

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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; #1540-514; #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 Bullding Code (ADIBC)¹

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent units are engineered mechanically, operated flood vents (EVs) 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 prior 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 coor is normally held in the closed position by a buoyant rolease device. When subjected to using 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 nour (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 ½-inch-by-½-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 FloorIVENT 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 morning in masonry and concrete walls of any thickness in order to camply 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 (RC)) the Smart Vent' FVs must be installed as follows.

- With a infinition of two openings on different sittles of each enclosed area.
- With a minimum of one EV for every 200 square reet (18.6 m²) of enclosed area except that the SmartVENT Stacking Model #1510-511 and FloodVERT Stacking Model #1540-521 pairs: ne

^{*}Ine ADISC is based on the 2009 IBC 2009 IBC code sections reterenced in this report are the same sections in the ADISC.