S. DEPARTMENT OF HOMELAND SECURITY DERAL EMFRGENCY MANAGEMENT AGENCY tional Frood Insurance Program

ELEVATION CERTIFICATE

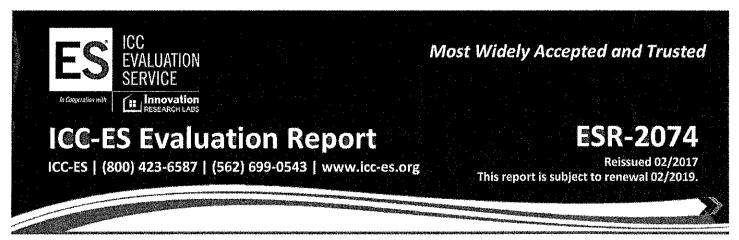
Important: Read the instructions on pages 1-9

OMB No. 1660-0008

Expiration Date: July 31, 2015

e important. i	read the matructions on pages 1-3.	
SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE
1. Building Owner's Name Jeff Steigerwalt	Policy/Number	
ريد. عنالطing Street Address (including Apt., Unit, Suite, and/oi 19703 Winchester Ave.	Bldg. No.) or P.O. Route and Box No.	Company NAIC Number
City CITY OF MARGATE CITY	State NJ ZIP Code 08402	200000000000000000000000000000000000000
 Property Description (Lot and Block Numbers, Tax Parcel BLOCK 331 LOT 22 	Number, Legal Description, etc.)	
 A. Building Use (e.g., Residential, Non-Residential, Addition, 5. Latitude/Longitude: Lat. N 39.3213 Long. W 074.5189 H Attach at least 2 photographs of the building if the Certificant. Building Diagram Number Ţ For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b d) Engineered flood openings?	orizontal Datum: NAD 1927 NAD 1983 Inte is being used to obtain flood insurance. A9. For a building with a 867 sq ft a) Square footage b) Number of perm within 1.0 foot a 2000 sq in c) Total net area o d) Engineered floo	of attached garage N/A sq ft anent flood openings in the attached garage bove adjacent grade N/A f flood openings in A9.b N/A sq in d openings? Yes No
SECTION B - FLOOD	INSURANCE RATE MAP (FIRM) INFORM	ATION
11. NFIP Community Name & Community Number CITY OF MARGATE 345304	B2. County Name ATLANTIC COUNTY	B3. State NJ
B4. Map/Panel Number B5. Suffix B6. FIRM Index 345304 / 0001 C No Index Print	Effective/Revised Date Zone(
Indicate elevation datum used for BFE in Item B9: ☑ NG 'e building located in a Coastal Barrier Resources System (gnation Date: SECTION C − BUILDING Building elevations are based on: ☐ Construction D *A new Elevation Certificate will be required when construct Elevations − Zones A1−A30, AE, AH, A (with BFE), VE, V1-below according to the building diagram specified in Item A	em (CBRS) area or Otherwise Protected Area (O CBRS OPA ELEVATION INFORMATION (SURVEY RE rawings* Building Under Construction ion of the building is complete. V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A3	PA)?
Benchmark Utilized: <u>private</u> Indicate elevation datum used for the elevations in items a) Datum used for building elevations must be the same as the	Vertical Datum: NGVD 1929 through h) below. ☑ NGVD 1929 ☐ NAVD 1988	
a) Top of bottom floor (including basement, crawlspace, or or ob) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zord) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent grade at lowest elevation of deck or stail	16.8 N/A. N/A. building 10.1 6.0 6.2	Check the measurement used. feet
SECTION D - SURVEYO	DR, ENGINEER, OR ARCHITECT CERTIFIC	CATION
his certification is to be signed and sealed by a land surveyor, iformation. I certify that the information on this Certificate reprinderstand that any false statement may be punishable by find. Check here if comments are provided on back of form. Check here if attachments. Therefore are Paul M. Koelling, PLS, CFM Therefore are Company Name and City Linwood.	engineer, or architect authorized by law to certify esents my best efforts to interpret the data available or imprisonment under 18 U.S. Code, Section 1 Were latitude and longitude in Section A provide licensed land surveyor? Yes No License Number NJ24GS 0432 Paul H. Koelling & Associates, LLC-COA 24GA2	elevation le. 2001. ed by a PLACE SEAL HERE
ignature Date 9/23/15	Telephone (609) 927-0279	

	copy the corresponding information from			SURANCE COMPANY USE
ing Street Address (including Ap 9703 Winchester Ave.	t., Unit, Suite, and/or Bldg. No.) or P.O. Route and	d Box No.	Policy	Number:
City MARGATE	State NJ	ZIP Code 08402	Compa	ny:NAIC:Number:
SECTION	N D – SURVEYOR, ENGINEER, OR ARCHI	TECT CERTIFICATION	ON (CONTINU	JED)
Copy both sides of this Elevation Cer	tificate for (1) community official, (2) insurance ag	ent/company, and (3) bu	ilding owner.	
Comments *A8b.) Smart Vents Model #1540-510 **B8 & B9.) FEMA Pre-FIRM Zone "A ***C2a.) enclosure ****C2e.) Ductwork	D engineered for 200 square inches of net area ea AE"Base Flood Elevation 10 ft. (NAVD88) conv	och verted = 11.3 ft. (NGVD)	29)	
Signature	Date	9/23/15		
SECTION F - BUILDING FLE	EVATION INFORMATION (SURVEY NOT R	EQUIRED) FOR ZON	NE AO AND Z	ONE A (WITHOUT BFE)
	complete Items E1-E5. If the Certificate is intende			
grade (HAG) and the lowest adj a) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams E3. Attached garage (top of slab) is E4. Top of platform of machinery an E5. Zone AO only: If no flood depth	basement, crawlspace, or enclosure) is basement, crawlspace, or enclosure) is permanent flood openings provided in Section A) of the building is feet meters above d/or equipment servicing the building is number is available, is the top of the bottom floor	feet meters and/or 9 (see pasters above or below the HAG feet meters elevated in accordance	eters above eters above ages 8–9 of Instead the HAG.	or ☐ below the HAG. or ☐ below the LAG. ructions), the next higher floor ☐ below the HAG.
	Unknown. The local official must certify this inf			
SECTION	F - PROPERTY OWNER (OR OWNER'S	REPRESENTATIVE)	CERTIFICAT	ION
	izeo febresentative who combletes sections A. D.	and E for Zone A (with	out a FEIVIA-1881	ued or community-issued BFE)
	ments in Sections A, B, and E are correct to the b			
or Zone AO must sign here. The state	ments in Sections A, B, and E are correct to the bed Representative's Name	est of my knowledge.	State	ZIP Code
or Zone AO must sign here. The state roperty Owner's or Owner's Authoriz	ments in Sections A, B, and E are correct to the bed Representative's Name City	est of my knowledge.	State	
or Zone AO must sign here. The state roperty Owner's or Owner's Authorized ddress Signature	ments in Sections A, B, and E are correct to the bed Representative's Name	est of my knowledge.		
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or Zone AO must sign here. The state roperty Owner's or Owner's Authorized diress	ments in Sections A, B, and E are correct to the bed Representative's Name City	est of my knowledge.	State Telephone	ZIP Code
or Zone AO must sign here. The state croperty Owner's or Owner's Authorized ddress Signature Comments The local official who is authorized by law	ments in Sections A, B, and E are correct to the beed Representative's Name City Date SECTION G — COMMUNITY INFORI	est of my knowledge. MATION (OPTIONAL plain management ordina	State Telephone .) nce can comple	ZIP Code Check here if attachments ete Sections A, B, C (or E), and G
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or Zone AO must sign here. The state roperty Owner's or Owner's Authorized difference Comments The local official who is authorized by law this Elevation Certificate. Complete the is authorized by law to certify A community official complete.	ments in Sections A, B, and E are correct to the beed Representative's Name City Date SECTION G – COMMUNITY INFORI or or ordinance to administer the community's floods e applicable item(s) and sign below. Check the mea	MATION (OPTIONAL plain management ordinal asurement used in Items in signed and sealed by ate of the elevation data out a FEMA-issued or control of the sealed or control or control or control or c	State Telephone) nce can comple G8–G10. In Pue a licensed surv in the Commer	Check here if attachments The Sections A, B, C (or E), and Gerto Rico only, enter meters. The Sections A, B, C (or E) and Gerto Rico only, enter meters.
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or Zone AO must sign here. The state Property Owner's or Owner's Authorized Address Signature Comments The local official who is authorized by law this Elevation Certificate. Complete the is authorized by law to certify A community official complete and the following information (Item 1941). The following information (Item 1942). This permit has been issued for:	SECTION G — COMMUNITY INFORI or ordinance to administer the community's floodpe applicable item(s) and sign below. Check the measures taken from other documentation that has bee elevation information. (Indicate the source and died Section E for a building located in Zone A (with ms G4—G10) is provided for community floodplain G5. Date Permit Issued New Construction Substantial Im	MATION (OPTIONAL plain management ordinal asurement used in Items in signed and sealed by ate of the elevation data out a FEMA-issued or or management purposes. G6. Date Certificate	State Telephone) nce can comple G8-G10. In Pue a licensed surv in the Commer ommunity-issue Of Compliance	ZIP Code ☐ Check here if attachments ete Sections A, B, C (or E), and Gerto Rico only, enter meters. eyor, engineer, or architect who nts area below.) d BFE) or Zone AO.
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or Zone AO must sign here. The state Property Owner's or Owner's Authorized Address Signature Comments e local official who is authorized by law this Elevation Certificate. Complete the is authorized by law to certify A community official complete B. A community official complete B. The following information (Itel B4. Permit Number 7. This permit has been issued for: BFE or (in Zone AO) depth of flood 0. Community's design flood elevation ocal Official's Name JIM GALANTING	SECTION G — COMMUNITY INFORI Or or ordinance to administer the community's floodpe applicable item(s) and sign below. Check the measures at the source and died Section E for a building located in Zone A (with ms G4—G10) is provided for community floodplain G5. Date Permit Issued New Construction Substantial Implicitly in the building: Joing at the building site: Title	MATION (OPTIONAL plain management ordinal asurement used in Items in signed and sealed by ate of the elevation data out a FEMA-issued or commanagement purposes. G6. Date Certificate corovement in the provement	State Telephone nce can comple G8–G10. In Pue a licensed survin the Commer ommunity-issue Of Compliance/	Check here if attachments te Sections A, B, C (or E), and G erto Rico only, enter meters. eyor, engineer, or architect who nts area below.) d BFE) or Zone AO.
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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

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 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 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)[†]

[†]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 $400 \text{ square feet } (37.2 \text{ m}^2) \text{ of enclosed area.}$

- 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 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

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

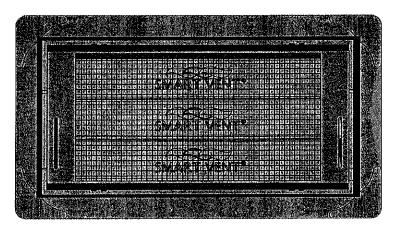


FIGURE 1—SMART VENT: MODEL 1540-510

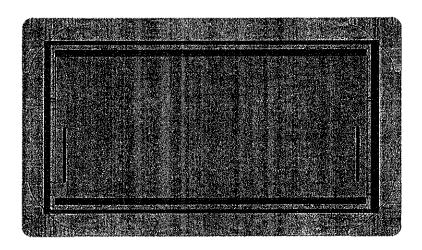


FIGURE 2-SMART VENT MODEL 1540-520

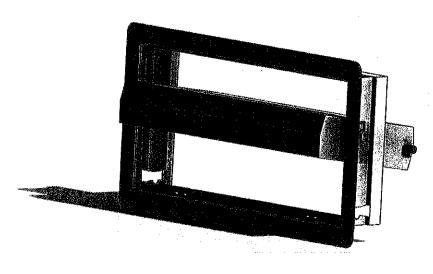


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN