U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMER JENCY MANAGEMENT AGENCY National Flood insurance Program

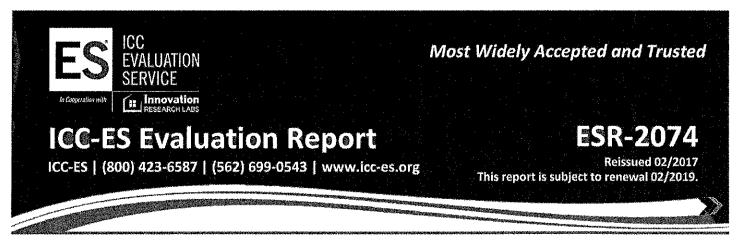
ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

SE	CTION A - PROPERTY INFO	DRMATION	FOR INSURANCE COMPANY USE		
A1. Building Owner's Name Piraino Builders LLC			Policy Number		
A2. Building Street Address (including Apt., Unit, Suite, and/20 N. Essex Ave.	or Bldg. No.) or P.O. Route and B	ox No.	Company NAIC Number:		
City CITY OF MARGATE CITY	State NJ ZIP Co	de 08402 D	CEIVED		
A3. Property Description (Lot and Block Numbers, Tax Parc BLOCK 206.01 LOT 1	el Number, Legal Description, etc.				
 A4. Building Use (e.g., Residential, Non-Residential, Additio A5. Latitude/Longitude: Lat. N 39,3318 Long. W 074.4983 A6. Attach at least 2 photographs of the building if the Certification of the Building Diagram Number 8/2 A8. 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? Yes No 	Horizontal Datum: NAD 1927 icate is being used to obtain flood A9. For a section sect	insurance. or a building with an atta Square footage of atta Number of permanent within 1.0 foot above a Total net area of flood Engineered flood oper	ched garage N/A sq ft flood openings in the attached garage djacent grade N/A openings in A9.b N/A sq in lings?		
SECTION B - FLOO	D INSURANCE RATE MAP (FIRM) INFORMATIO	N		
B1. 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 Dat	B8. Flood Zone(s) A8	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 10		
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: NAVD 1988 Other/Source: Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No Designation Date:					
	☐ CBRS ☐ OPA G ELEVATION INFORMATIO	N (SURVEY REQUIR	ED)		
	G ELEVATION INFORMATIO Drawings* ☐ Building U ction of the building is complete. I–V30, V (with BFE), AR, AR/A, A A7. In Puerto Rico only, enter mete Vertical Datum: NGVD 1929) through h) below. ☑ NGVD 192	nder Construction* R/AE, AR/A1–A30, AR// ers. 9 □ NAVD 1988 □ O	☐ Finished Construction AH, AR/AO. Complete Items C2.a-h her/Source:		
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Aga Stress (including Apt., Unit, Suite, and/or Bldg. No.) or P.C	FOR INSURANCE COMPAN	
Essex 20 N. ESSEX AVENUE	O. Noute and DOX NO.	FOR INSURANCE COMPAND Policy Number:
VIAFRGAETE St	ate NJ ZIP Code 08402	Company NAIC Number:
SECTION D - SURVEYOR, ENGI	NEER, OR ARCHITECT CERTIFIC	ATION (CONTINUED)
both, sides of this Elevation Certificate for (1) community office	cial, (2) insurance agent/company, and (3) building owner.
nents Smart Vents Model #1540-510 engineered for 200 square BB9.) FEMA Flood Hazard Resources Map Zone AE 9B a.) crawlspace be.) exterior air unit 31.8, ductwork elevation is 10.3, furance	Base Flood Elevation 9 ft. (NAVD88) con-	1 /
ture A. A. A.	Date 7/3/14	
ECTION E - BUILDING ELEVATION INFORMATION	I (SURVEY NOT REQUIRED) FOR	ZONE AO AND ZONE A (WITHOUT BFE)
Top of platform of machinery and/or equipment servicing the Zone AO only: If no flood depth number is available, is the to	e measurement used. In Puerto Rico onle appropriate boxes to show whether the enclosure) is	y, enter meters. elevation is above or below the highest adjacent meters above or below the HAG. meters above or below the LAG. ee pages 8–9 of Instructions), the next higher floor below the HAG. HAG. eters above or below the HAG. ance with the community's floodplain management
ordinance? Yes No Unknown. The local officia	al must certify this information in Section	G.
SECTION F - PROPERTY OWNER	R (OR OWNER'S REPRESENTATI	VE) CERTIFICATION
e must sign here. The statements in Sections A, B, and E rty Owner's or Owner's Authorized Representative's Name	E are correct to the best of my knowledg	е.
SS	City	State ZIP Code
ure	City	State ZIP Code Telephone
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ents	Date MMUNITY INFORMATION (OPTION e community's floodplain management on elow. Check the measurement used in Ite entation that has been signed and sealed ate the source and date of the elevation ated in Zone A (without a FEMA-issued	Telephone Check here if attachment NAL) Idinance can complete Sections A, B, C (or E), and Germs G8–G10. In Puerto Rico only, enter meters. If by a licensed surveyor, engineer, or architect who data in the Comments area below.) or community-issued BFE) or Zone AO.
ents SECTION G – COM I official who is authorized by law or ordinance to administer the evation Certificate. Complete the applicable item(s) and sign by the information in Section C was taken from other docume is authorized by law to certify elevation information. (Indicated A community official completed Section E for a building location.)	MMUNITY INFORMATION (OPTION e community's floodplain management or elow. Check the measurement used in literation that has been signed and sealed ate the source and date of the elevation ated in Zone A (without a FEMA-issued ommunity floodplain management purports)	Telephone Check here if attachment NAL) Idinance can complete Sections A, B, C (or E), and Germs G8–G10. In Puerto Rico only, enter meters. If by a licensed surveyor, engineer, or architect who data in the Comments area below.) or community-issued 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

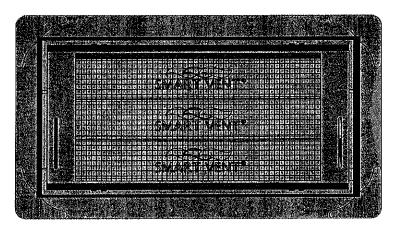


FIGURE 1—SMART VENT: MODEL 1540-510

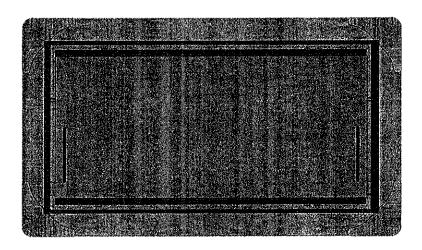


FIGURE 2-SMART VENT MODEL 1540-520

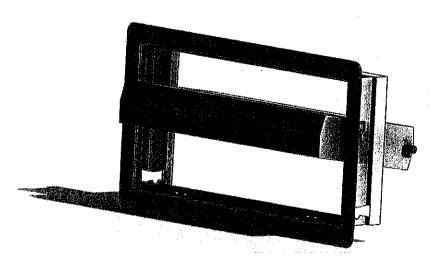


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN