U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

EEMA Form 086 0 22 /7/12)

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

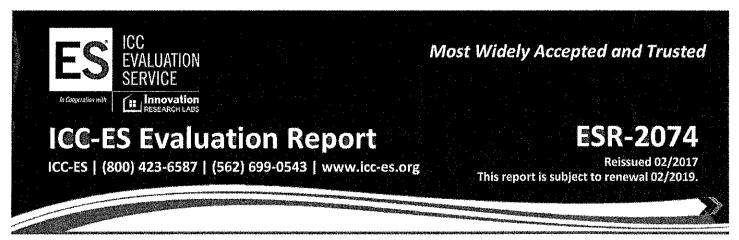
OMB No. 1660-0008 Expiration Date: July 31, 2015

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		important. K	eau t	ne mstructions on	i pages 1-3.	LAPIN	ation bate. out	7 01, 2010
		SEC.	TION A	A - PROPERTY INFO	ORMATION	FOR	NSURANCE CO	MPANY USE
A1. Building Owner's Nam	e Piraino Builde	rs LLC				estraint at the course	Number:	
A2. Building Street Addres 110 N. Barclay Ave.	s (including Apt.,	, Unit, Suite, and/or	Bldg. N	No.) or P.O. Route and E	Box No.	To a complete destroy of carbon	iny NAIC Numb	
City CITY OF MARGA	TE CITY			State NJ ZIP Co	ode 08402	-		
A3. Property Description (I BLOCK 303.01 LOT 19	ot and Block Nu	mbers, Tax Parcel	Numbe	r, Legal Description, etc	.)			
A4. Building Use (e.g., Res A5. Latitude/Longitude: La A6. Attach at least 2 photo A7. Building Diagram Num A8. For a building with a ci a) Square footage of b) Number of perman or enclosure(s) with c) Total net area of flo d) Engineered flood o	t. N 39.3349 Lo graphs of the builber 8 rawlspace or encorawlspace or encorawlspace or entiflood opening in 1.0 foot above openings in Appenings?	ng. <u>W 074.4969</u> Ho ilding if the Certifica closure(s): iclosure(s) gs in the crawlspace e adjacent grade A8.b	1305 6 1512	al Datum:	✓ NAD 1983 insurance. or a building with a) Square footage) Number of perm within 1.0 foot al) Total net area of) Engineered floo	of attached ga anent flood op bove adjacent f flood opening d openings?	parage N/A penings in the at grade N/A gs in A9.b N/A	tached garage
	SECI	IION B - FLOOD	INSU	RANCE RATE MAP	(FIRIVI) INFORIVI	ATION		
B1. NFIP Community Name CITY OF MARGATE	e & Community N 345304	lumber		County Name NTIC COUNTY		B3. Sta	ate	
B4. Map/Panel Number 345304 / 0001	B5. Suffix C	B6. FIRM Index I		B7. FIRM Panel Effective/Revised Da 10/18/1983	B8. Flo Zone(s A8**		Base Flood Ele AO, use base f 10**	lood depth)
Indicate the source of I. FIS Profile In a single	☐ FIRM m used for BFE	☐ Community De in Item B9: ☒ NG	termine VD 192 em (CE	ed	rce: 38		☐ Yes 🛭	☑ No
	SECTIO	N C - BUILDING	ELEV	ATION INFORMATION	ON (SURVEY RE	EQUIRED)		
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				(easurement used	d.
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Certifier's Name Paul M. Ko		M	*		ber NJ24GS 0432			AL RE
Title Licensed Land Survey			Paul H	I. Koelling & Associates				
Address 2161 Shore Road		City Linwood		State NJ	ZIP Code 08221			
Signature	2	Date 1/20/2016	-		(609) 927-0279			
Hole	3					- 80		

San roverse side for continuation

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. I	on from Section A	-	FOR INSURANC COMPANY USE : Policy Number:
110 N. Barclay Ave.	Noute and Box No.	i i	Policy Number:
City MARGATE State	NJ ZIP Code (08402	Company NAIC Number:
SECTION D - SURVEYOR, ENGINEER, OR	ARCHITECT CER	TIFICATION (CO	NTINUED)
opy both sides of this Elevation Certificate for (1) community official, (2) insu	rance agent/company	, and (3) building ov	vner.
comments A8b.) 5 Smart Vents Model #1540-510 engineered for 200 square inches of B8 & B9.) FEMA Pre-FIRM Zone "AE"Base Flood Elevation 8 ft. (NAVD8 **C2a.) crawlspace enclosure ***C2e.) exterior air unit elev. is 14.0, ductwork elev. is 11.3	net area each, also 1 88) converted = 9.3 f	foundation opening . (NGVD29)	Ti di
ignature	Date 1/20/2016		
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For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is and C. For Items E1–E4, use natural grade, if available. Check the measurem E1. Provide elevation information for the following and check the appropriate	nent used. In Puerto F	tico only, enter mete	rs.
grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, crawlspace, or enclosure) is c. For Building Diagrams 6–9 with permanent flood openings provided in S (elevation C2.b in the diagrams) of the building is fe c. Attached garage (top of slab) is feet meters c. Top of platform of machinery and/or equipment servicing the building is c. Zone AO only: If no flood depth number is available, is the top of the bo ordinance? Yes No Unknown. The local official must certificate in the control of the contro	section A Items 8 and et meters above or belong feettom floor elevated in	feet meters feet meters or 9 (see pages 8–5 ove or below thow the HAG.	above or below the HAG. above or below the LAG. of Instructions), the next higher floore HAG. below the HAG.
SECTION F - PROPERTY OWNER (OR OW	NER'S REPRESE	NTATIVE) CERTI	FICATION
ne property owner or owner's authorized representative who completes Secti Zone AO must sign here. The statements in Sections A, B, and E are correct roperty Owner's or Owner's Authorized Representative's Name			MA-issued or community-issued BFE)
	City	State	ZIP Code
		7.1.1.	
gnature	Date	Telepho	one
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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

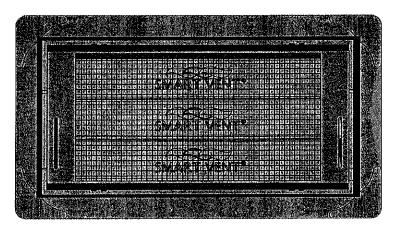


FIGURE 1—SMART VENT: MODEL 1540-510

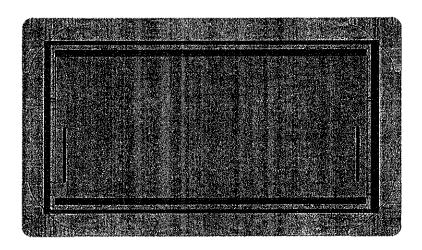


FIGURE 2-SMART VENT MODEL 1540-520

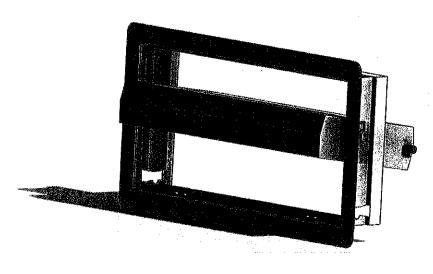


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued 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 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

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 and revised November 2017.



ICC-ES Evaluation Report

ESR-2074 FBC Supplement

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 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 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 master report, reissued February 2017 and revised November 2017.

