DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency ELEVATION CERTIFICATE

IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 9-16

OMB Control Number: 1660-0008 Expiration: 11/30/2018

Copy all pages of this Elevation Certificate and all attachments for (1) community	y official, (2) ins			
SECTION A - PROPERTY INFORMATION		FORM INSURA	NCE COMPA	NY USE
A1. Building Owner's Name The Becker's		Policy Number:		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or Box No.7401A Winchester Ave.	P.O. Route an	Company NAIC Number:		
City CITY OF MARGATE	State NJ		Zip Code 0	8402
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Lega Lot 1.01 and Block 301	al Description,	etc.)		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, e	tc.) RESIDENT	TAL		
A5. Latitude/Longitude: Lat. N 39.3352 Long. w 74.4949 Hor	izontal Datum:	ONAD 1927	● NAD 1983	i.
A6. Attach at least 2 photographs of the building if the Certificate is being us	sed to obtain flo	ood insurance.		
A7. Building Diagram Number 7				1/4
A8. For a building with a crawlspace or enclosure(s):	A9. For a bu	uilding with an attach	ed garage:	
a) Square footage of crawlspace or enclosure(s) 1169 sq ft	a) Square fo	ootage of attached ga	rage N/A	sq ft
b) Number of permanent flood openings in the 6* crawlspace or enclosure(s) within 1.0 foot above adjacent grade	in the atta	of permanent flood op ached garage within i jacent grade		
c) Total net area of flood openings in A8.b 1200* sq in	c) Total net	area of flood opening	s in A9.b N/A	sq in
d) Engineered flood openings?		ed flood openings?	○Yes (● No
SECTION B - FLOOD INSURANCE RAT	nty Name	INFORMATION		B3. State
	IC COUNTY			NJ
B4. Map/Panel Number 345304 / 0001 B5. Suffix C B6. FIRM Index Date Revised D No index printed 10/18/1983	Date	B8. Flood Zone(s)		od Elevation(s) , use base flood
B10. Indicate the source of the Base Flood Elevation (BFE) data or base floo	d donth ontere	d in Itom PO:		
FIS Profile FIRM Community Determined Other/Source: B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929				
B12. Is the building located in a Coastal Barrier Resources System (CBRS) a	area or Otherw	ise Protected Area (0	DPA)? CY	es 💿 No
Designation Date: CBRS OPA				
SECTION C - BUILDING ELEVATION INFO	RMATION (SU	JRVEY REQUIRED)		
C2. Elevations - Zones A1 - A30, AE, AH, A (with BFE), VE, V1 - V30, V (with Complete Items C2.a -h below according to the building diagram specified in A new Elevation Certificate will be required when construction of the building	Item A7. In Pug is complete.	R/A, AR/AE, AR/A1 uerto Rico only, enter		
Other/Source:			·	
Datum used for building elevations must be the same as that used for the BF	₹E.		Check the me	easurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	6.6	-	• feet	C meters
b) Top of the next higher floor	13.7		(e) feet	C meters
c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab)	N/A N/A		● feet ● feet	
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	11.6****	14	• feet	C meters
f) Lowest adjacent (finished) grade next to building (LAG)	6.4	-	• feet	○ meters
g) Highest adjacent (finished) grade next to building (HAG)	7.0		(e) feet	meters
b) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	6.2		• feet	C meters

ELEVATION CERTIFICATE

OMB Control Number: 1660-0008 Expiration: 11/30/2018

7401A Winchester Ave.

CITY OF MARGATE

NJ

08402

his certification is to be signed and sealed	ND - SURVEYOR, ENGINEE			
		•		
nat the information on this Certificate repre unishable by fine or imprisonment under		pret the data available. I under	rstand that any false statement may be	
unishable by fine of imprisorment under	Were latitude and long	uitude in Section A		
Check here if attachments,	provided by a licensed			
Y				
ertifier's Name aul M. Koelling, PLS, CFM	License Number NJ24GS 04328800			
itle icensed Land Surveyor	Company Name Paul Koelling&AssocLL	.C-COA24GA28256300	PLAGE SEAL HERE	
ddress 161 Shore Road	City	State Zip Code NJ 08221		
ignature	Date 6/29/2016	Telephone +1 (609) 927-0279		
opy both sides of this Elevation Certificate	o for (1) community official (2	\incures a continuo a	nd (2) building owner	
B8 & B9.) FEMA Pre-FIRM Zone "AE" *C2a.) crawlspace enclosure **C2e.) exterior air unit elev. is 13.5, du		and the same	(MGADSA)	
	111.			
			Date 6/29/2016	
ignature SECTION E - BUILDING ELEVATION or Zones AO and A (without BFE), comple ections A, B, and C. For Items E1 -E4, use 1. Provide elevation information for the fo	ete Items E1 -E5. If the Certifi e natural grade, if available. C	cate is intended to support a L heck the measurement used.	AO AND ZONE A (WITHOUT BFE) OMA or LOMR-F request, complete In Puerto Rico only, enter meters.	
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SECTION E - BUILDING ELEVATION or Zones AO and A (without BFE), completions A, B, and C. For Items E1 -E4, use of Zones AO. B, and C. For Items E1 -E4, use of Zones AO. B, and C. For Items E1 -E4, use of Zones AO. B, and C. For Items E1 -E4, use of Zones AO. B, and C. For Items E1 -E4, use of Zone Items E1 -E4, use of Zone Items E1 -E4, use of Zone AO. Solution (including basen of enclosure) is of Zone AO. Solution (including basen of Enclosure) is of Zone AO. Solution C2. B in the diagrams of Zone AO. Solution C3. B in the diagrams of Zone AO. Solution Items Items Items of Zone AO. Solution Items of Zone AO	ete Items E1 -E5. If the Certifice natural grade, if available. Collowing and check the appropriate in the collowing and check the collowing is available, is the top of the collowing and collowi	cate is intended to support a L heck the measurement used. riate boxes to show whether th feet meters support feet meters feet meters support feet meters bottom floor elevated in accordicial must certify this information IER'S REPRESENTATIVE) Conservations Sections A, B, and E for Zone	AO AND ZONE A (WITHOUT BFE) OMA or LOMR-F request, complete In Puerto Rico only, enter meters. The elevation is above or below the Barbove or below the HAG. (see pages 8 -9 of Instructions), the nexters above or below the HAG.	
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ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corr	esponding information from Section A.		FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, S AVENUE	uite, and/or Bldg. No.) or P.O. Route and Bo	x No.	Policy Number:	
City MARGATE	State ZIP Code New Jersey 08402		Company NAIC Number	
SECTION G - COMMUNITY INFORMATION (OPTIONAL)				
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, en	Certificate. Complete the applicable item(s			
	en from other documentation that has been ted by law to certify elevation information. (In			
G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.				
G3. The following information (Items G4-	-G10) is provided for community floodplain r	manageme	ent purposes.	
G4. Permit Number	G5. Date Permit Issued		late Certificate of compliance/Occupancy Issued	
G7. This permit has been issued for: New Construction Substantial Improvement				
G8. Elevation of as-built lowest floor (including of the building:	g 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:				
Local Official's Name Title JIM GALANTINO CFM				
Community Name	Telephone			
CITY OF MARGATE	609-822-1	1974		
Signature Date 8/12/2016				
Comments (including type of equipment and location, per C2(e), if applicable)				
			Check here if attachments.	

Building Photographs

e y	See Instructions for Item A6.		For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg.) No. or P.O. Route and Box No. 7401 A Winchester Ave.			Policy Number
City Margate	State NJ	ZIP Code 08402	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.



Front View - Date of Photograph: (See Photo Stamp)

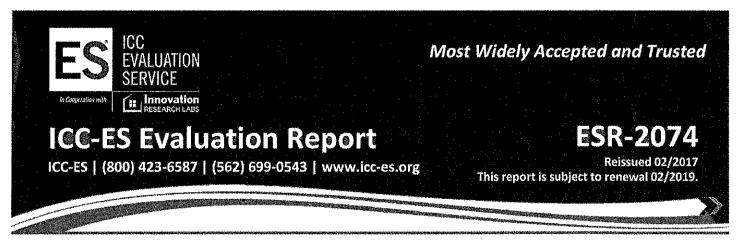






Right Side View - Date of Photograph: (See Photo Stamp)

Vent View - Date of Photograph: (See Photo Stamp)



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

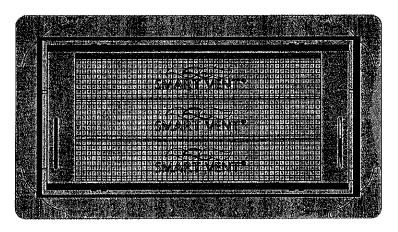


FIGURE 1—SMART VENT: MODEL 1540-510

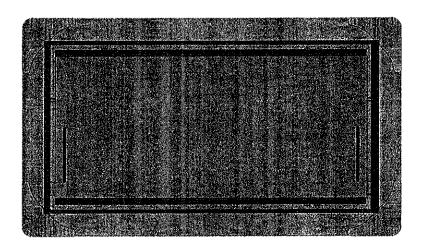


FIGURE 2-SMART VENT MODEL 1540-520

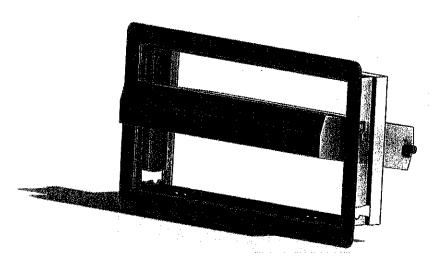


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN