FEMA Form 086-0-33 (7/12)

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FEDERAL EMERGENCY MAN	AGEMENT AGENCY	LEVATION		AIC		o. 1660-0008
National Floodsurance Program Important: Read the instructions on pages 1–9.						on Date: July 31, 2015
SECTION A – PROPERTY INFORMATION						URANCE COMPANY USE
Building Owner's Nam	NE STEPHEN ERIC COOL	PER & JULIE SAFEF	RCOOPER		Policy NL	ımber:
A2. Building Street Addres 16 WEST COLMAR CIRCI		e, and/or Bidg. No.) or	P.O. Route and E	Box No.	Company	/ NAIC Number
City MARGATE CITY		State	e NJ ZIP Co	ode 08402		
A3. Property Description (BLOCK 509.04 LOT 69.0		x Parcel Number, Lega	al Description, etc	:.)	DE	CEIVED)
 A4. Building Use (e.g., Readed) A5. Latitude/Longitude: La A6. Attach at least 2 photo A7. Building Diagram Num A8. For a building with a cities 	t. <u>39°20'05.6"</u> Long. <u>74°29</u> graphs of the building if the ber <u>8</u>	9'8.4" Horizontal Datu	m: 🔲 NAD 1927 ed to obtain flood	7 🛛 NAD 1983		ны 1 3 2014 ле:
 a) Square footage of 0 b) Number of perman or enclosure(s) with c) Total net area of flo 	crawlspace or enclosure(s) ent flood openings in the cr nin 1.0 foot above adjacent ood openings in A8.b		ft a) b) in c)	 Square footage of att Number of permanen within 1.0 foot above Total net area of flood 	ached garag t flood open adjacent gra d openings i	gesq ft ings in the attached garage ade
d) Engineered flood o	the second s		,	Engineered flood ope		Yes No
· · · · · · · · · · · · · · · · · · ·	SECTION B-	FLOOD INSURANC	E RAIE MAP	(FIRM) INFORMATIO		
B1. NFIP Community Name MARGATE 345		B2. County I ATLANTIC	Name		B3. State NEW JER	SEY
B4. Map/Panel Number 34001C0434		/18/1983 Effe	B7. FIRM Panel ctive/Revised Da 0/18/1983	te B8. Flood Zone(s) AE		se Flood Elevation(s) (Zone), use base flood depth) 8.00'
	FIRM Comm m used for BFE in Item B9: n a Coastal Barrier Resource	unity Determined	Other/Sour	ce: 8 🛛 Other/Source:		<u>r Firm Map</u>] Yes ⊠ No
				N (SURVEY REQUI	RED)	
C2. Elevations – Zones A1–4 below according to the b Benchmark Utilized: Indicate elevation datum	ate will be required when co A30, AE, AH, A (with BFE), uilding diagram specified in — used for the elevations in it	VE, V1–V30, V (with E Item A7. In Puerto Ric Vertical Da tems a) through h) belo	ing is complete. FE), AR, AR/A, A co only, enter met itum: ww. □ NGVD 192	ers.	'AH, AR/AO	
Datum used for building	elevations must be the sam	e as that used for the l	BFE.	Checl	the measu	irement used.
 b) Top of the next higher c) Bottom of the lowest h d) Attached garage (top of e) Lowest elevation of ma (Describe type of equip f) Lowest adjacent (finish g) Highest adjacent (finish 	orizontal structural member of slab) achinery or equipment servi oment and location in Comr red) grade next to building (hed) grade next to building	r (V Zones only) cing the building nents) (LAG) (HAG)	-	8.25 11.40 N/A N/A N/A <u>7.65</u> 3.30	 ☑ feet ☑ feet ☑ feet ☑ feet ☑ feet 	meters meters meters meters meters meters meters
n) Lowest adjacent grade	at lowest elevation of deck				-	meters
		and the second sec		ECT CERTIFICATIO		
This certification is to be sign information. I certify that the i I understand that any false si	information on this Certifica	te represents my best	efforts to interpret	t the data available.	ion	
Check here if commentsCheck here if attachment	are provided on back of fo its.	rm. Were latitude licensed land		Section A provided by a] Yes ☐ No	a	PLACE SEAL
.īer's Name ARTHUR W	. PONZIO, JR.		License Numbe	er GS28314		HERE
Title LAND SURVEYOR	Company	Name ARTHUR W. P	ONZIO COMPAN	IY		
Address 400 NORTH DOVE	RAVENUE City ATLA	NTIC CITY	State NJ Z	IP Code 08401		
Signature	Date 8/11	/14	Telephone 60	9-344-8194		

See reverse side for continuation.

JRTANT: In these spaces, copy the corr		Α.	FOR INSURANCE COMPANY US
ding Street Address (including Apt., Unit, Suite, and WEST COLMAR CIRCLE	nd/or Bldg. No.) or P.O. Route and Box No.		Policy Number:
MARGATE CITY	State NJ ZIP Code 0	08402	Company NAIC Number:
SECTION D - SURVEY	OR, ENGINEER, OR ARCHITECT CER	TIFICATION (CO	NTINUED)
Copy both sides of this Elevation Certificate for (1) con		and the second se	
	ELEVATION OF A/C CONDENSOR = 11.30'		
SMART VENT MODEL #7540-510	1		
(Ittles (1 K/			
Signature	Date 8/11/14		
SECTION E - BUILDING ELEVATION INFO	RMATION (SURVEY NOT REQUIRED)	FOR ZONE AO	AND ZONE A (WITHOUT BEE
For Zones AO and A (without BFE), complete Items E and C. For Items E1–E4, use natural grade, if available	1–E5. If the Certificate is intended to support a	a LOMA or LOMR-F	request, complete Sections A, B,
E1. Provide elevation information for the following an grade (HAG) and the lowest adjacent grade (HAG)	d check the appropriate boyes to show whath	co only, enter mete	rs.
grade (in to) and the lowest addeent diade (LAC			
 a) Top of bottom floor (including basement, craw 	space, or enclosure) is	feet 🗌 meters 📋	above or 🗌 below the HAG.
/ top of bottom hoor (moldaling baschicht, claw	SDACE, OF ENCLOSUIET IS	ant motore I	above or he below the LAC
 E2. For Building Diagrams 6–9 with permanent flood (elevation C2.b in the diagrams) of the building is E2. Attack of the building is 	openings provided in Section A Items 8 and/o	r 9 (see pages 8–9	of Instructions), the next higher flo
L3. Attached garage (top of slab) is	feet meters above or below	v the HAG	
E4. Top of platform of machinery and/or equipment se	ervicing the building is .	☐ meters ☐ abo	ve or 🗌 below the HAG.
E5. Zone AO only: If no flood depth number is availa	ble, is the top of the bottom floor elevated in a	ccordance with the	community's floodplain manageme
ordinance? 🗌 Yes 🗌 No 🗌 Unknown. The	the second se		
SECTION E – PROPERT	V OWNED (OD OWNEDIG DEDDEDEN		
	Y OWNER (OR OWNER'S REPRESEN		
The property owner or owner's authorized representativ or ⁷ ne AO must sign here. The statements in Sections	e who completes Sections A, B, and E for Zor A, B, and E are correct to the best of my know	a A (without a EEM	
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The property owner or owner's authorized representative or ~ ne AO must sign here. The statements in Sections ity Owner's or Owner's Authorized Representative Address Signature comments SECTION e local official who is authorized by law or ordinance to achis Elevation Certificate. Complete the applicable item(s) The information in Section C was taken from other is authorized by law to certify elevation informati A community official completed Section E for a b The following information (Items G4–G10) is pro- t. Permit Number Chis permit has been issued for: New Constru- Elevation of as-built lowest floor (including basement) BFE or (in Zone AO) depth of flooding at the building Community's design flood elevation:	e who completes Sections A, B, and E for Zor A, B, and E are correct to the best of my know s's Name City Date I G – COMMUNITY INFORMATION (OP Iminister the community's floodplain management and sign below. Check the measurement used er documentation that has been signed and s on. (Indicate the source and date of the eleva uilding located in Zone A (without a FEMA-iss vided for community floodplain management p t Issued G6. Date Ce uction Substantial Improvement of the building: feet site: feet Title Constraints	A (without a FEM wiedge. State Telephon TIONAL) ent ordinance can ca d in Items G8–G10. ealed by a licensed ation data in the Con sued or community- ourposes. ertificate Of Complia meters Da meters Da meters Da	A-issued or community-issued BF ZIP Code e Check here if attachme complete Sections A, B, C (or E), and n Puerto Rico only, enter meters. I surveyor, engineer, or architect w mments area below.) issued BFE) or Zone AO. ance/Occupancy Issued atum atum atum

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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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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; #1540-511; #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)[†]

 $^{\dagger} \text{The ADIBC}$ 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,

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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

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installed with a minimum of one FV for every 400 square feet (37.2 m^2) 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).

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.) 200	
FloodVENT®	1540-520	15 ³ /4" X 7 ³ /4"		
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	

TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot = m^2

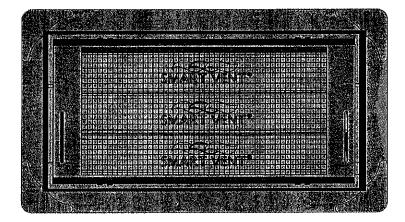


FIGURE 1-SMART VENT: MODEL 1540-510

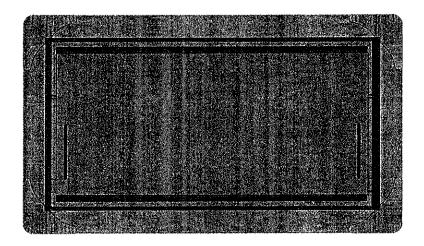


FIGURE 2-SMART VENT MODEL 1540-520

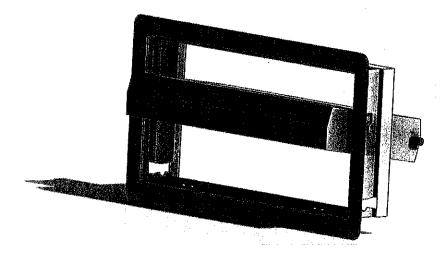


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN