U.S. DEPARTMENT OF HOMELAND SECUR FEDERAL EMERGENCY MANAGEMENT AGE National Flood Insurance Program ELEVATION CERTIFICATE IMPORTANT: FOLLOW THE INSTRUCTIONS ON PA	OMB Centrol Number: 1660-0008
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) Insu	
SECTION A - PROPERTY INFORMATION	FOR INSURANCE COMPANY USE
A1. Building Owner's Name Harvey Waxman	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 780 Old Compass Road	Company NAIC Number:
City Longboat Key State FL	Zip Code 34228
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc	
Property ID # 7888300006 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential A5. Latitude/Longitude: Lat. 27 18' 11.0".N Long. 82 32' 02.6". Webrizontal Datum:	C NAD 1927 C NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood	Insurance.
A7. Building Diagram Number	
	ing with an attached garage:
a) Square footage of crawlspace or enclosure(s) 3,095 sq ft a) Square foota	age of attached garage 516 sq ft
	ermanent flood openings ed garage within 1.0 foot ant grade 3
c) Total net area of flood openings in A8.b 5,640 sq in c) Total net area	a of flood openings in A9.b 600 sq in
	flood openings? XYes C No
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) IN	
B1. NFIP Community Name & Community Number B2. County Name Town of Longboat Key 120153 Manatee	B3. State FL
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ B8.	
12081C 0291 E 03/17/2014 Revised Date 03/17/2014	AE (Zone AO, use base flood depth 9
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in	Item B9;
C FIS Profile O FIRM C Community Determined C Other/Source:	
811. Indicate elevation datum used for BFE in Item B9: CNGVD 1929 (* NAVD 1988 C C	ther/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Designation Date: C CBRS C OPA	Protected Area (OPA)? CYes & No
SECTION C - BUILDING ELEVATION INFORMATION (SURV	EY REQUIRED)
C1. Building elevations are based on: C Construction Drawings* C Building Under Const A new Elevation Certificate will be required when construction of the building is complete.	ruction* CR Finished Construction
C2. Elevations: Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR tems C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only,	VAE, AR/A1-A30, AR/AH, AR/AO. Complete enter maters.
Benchmark Utilized: C.C.C.L. MONUMENT Vertical Datum: A	JAVD 1998
ndicate elevation datum used for the elevations in items a) through h) below. C NGVD 1929	(X NAVD 1988
C Other/Source:	551 28 2016
Datum used for building elevations must be the same as that used for the BFE.	Check the measurement used CONGBOAT K
) Top of bottom floor (including basement, crawlspace, or enclosure floor) 4 .	3 (* feet C meters
) Top of the next higher floor FIRST LIVING	9 R feet C meters
Bottom of the lowest horizontal structural member (V Zones only)	C feet C meters
I) Attached garage (top of slab)	3 Cx feet C meters

 e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)

f) Lowest adjacent (finished) grade next to building (LAG)

g) Highest adjacent (finished) grade next to building (HAG)

 h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

		1 MARLON	
	Check the mea	asurement used.	CNGBOAT KEY
4.3	(* feet	C meters	ning and Building
_11 : 9		C meters	
N/A	(*feet	C meters	
4.3	Cx feet	C meters	
20.8	Gx feet	C meters	
4.3	Cxfeet	C meters	
4.7	(x feet	C meters	
N/A	R feet	C meters	

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	ELEVATION CERTIFICATE, page 2		
IMPORTANT: In these spaces, copy the co	prresponding Information f	om Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit,	Suite, and/or Bldg. No.) or P	.O. Route and Box No.	
780 Old Compass Road			Policy Number.
City Longboat Key	State FL	Zip Code 34228	Company NAIC Number:
	- SURVEYOR, ENGINEER,	Collin	
This certification is to be signed and sealed by that the information on this Certificate represe punishable by fine or imprisonment under 18 t Check here if attachments.	ents my best efforts to interpre	et the data available. I under in Section A	
	(XYes (No		2 Jun
Certifier's Name Robert O Drake	License 595	e Number 5	. AZ
Title Project Manager	Company Name Red stake Surveyors, In	NC .	XU X No
Address 7123 Proctor Road		tate Zip Code L 34241	An AN
Signature A O Loub		elephone 941-923-9997	V
Copy all pages of this Elevation Certificate for	(1) community official (2) ins	urance agent/company	, and (3) building owner
DOORWAY OPENIN (25% OF T			
signature Kout O.	elale		Date
SECTION E - BUILDING ELEVATION IN	and a second to a first the second of the second	Adventited Country & Avenue white a service of the	
For Zones AO and A (without BFE), complete I Sections A, B, and C. For items E1-E4, use na	Items E1-E5. If the Certificate atural grade, if available. Cher	is intended to support of the measurement us	a LOMA or LOMR-F request, complete ed. In Puerto Rico only, enter meters.
 Provide elevation information for the follow highest adjacent grade (HAG) and the lower 	ving and check the appropriat		
 a) Top of bottom floor (including basement or enclosure) is 	t, crawlspace,	C feet C me	eters above or i below the HAG.
b) Top of bottom floor (including basement			1
or enclosure) is	t, crawispace, *	C feet C ma	eters 🔲 above or 📋 below the LAG.
or enclosure) is 22. For Building Diagrams 6-9 with permanent	flood openings provided in S		9 (see page 8 of Instructions), the next
or enclosure) is E2. For Building Diagrams 6-9 with permanent ligher floor (elevation C2.b in the diagrams) of	flood openings provided in S	ection A Items 8 and/or	9 (see page 8 of Instructions), the next aters above or below the HAG.
or enclosure) is E2. For Building Diagrams 6-9 with permanent higher floor (elevation C2.b in the diagrams) of E3. Attached garage (top of slab) is E4. Top of platform of machinery and /or equip	flood openings provided in S the building is	ection A Items 8 and/or	9 (see page 8 of Instructions), the next eters above or betow the HAG.
or enclosure) is E2. For Building Diagrams 6-9 with permanent sigher floor (elevation C2.b in the diagrams) of E3. Attached garage (top of slab) is E4. Top of platform of machinery and /or equip servicing the building is E5. Zone AO only: If no flood depth number is a	the building is	Lection A Items 8 and/or C feet C me C feet C me C feet C me ttom floor elevated in ac	s (see page 8 of Instructions), the next eters above or below the HAG. eters above or below the HAG. eters above or below the HAG.
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Replaces all previous editions.

Building Photographs 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.			Policy Number
780 Old Compass			
City Longboat Key	State FL	ZIP Code 34228	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, following.



Front View		



JUL 2 8 2016

IOWN OF LONGBOAT KE Planning, Zonald and Build or

Rear View



ICC-ES Evaluation Report

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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:

- 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)¹

¹The 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.

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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 2.6.2.2 of ASCE/SEI 24 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. The mounting straps allow mounting in masonry and concrete walls up to 12 inches (305 mm) thick. In order to comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, 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 square feet (37.2 m²) 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

*Revised July 2015

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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 October 2013 (editorially revised May 2014).

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.)
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

TABLE 1-MODEL SIZES

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

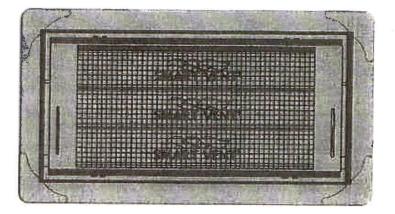


FIGURE 1-SMART VENT: MODEL 1540-510

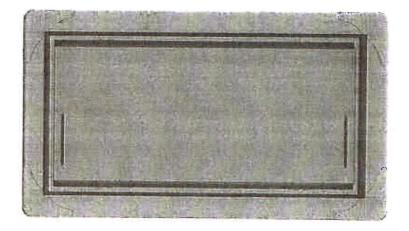


FIGURE 2-SMART VENT MODEL 1540-520

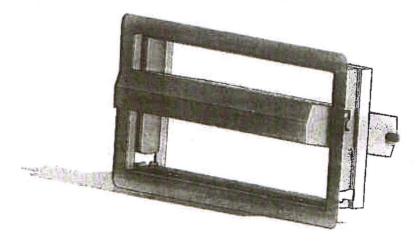


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



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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:

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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:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

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 FBC and the FRC, provided the design and installation are in accordance with the *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 FBC and the FRC.

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 2015 and revised July 2015.

*Revised July 2015

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