### U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

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

### ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official. (2) insurance agent/company and (3) building on

	SEC	··			, 00, (2)0011		DANIOE COMBANDANICA
SECTION A – PROPERTY INFORMATION  A1. Building Owner's Name				Policy Num	RANCE COMPANY USE		
Lorry Eible & John						Policy Num	iber:
A2. Building Stree Box No.	t Address (in	cluding Apt., Unit, Sui	te, and/o	r Bldg. No.) o	or P.O. Route and	Company N	NAIC Number:
5623 Cape Leyte [	Drive	£)					
City				State	-	ZIP Code	
Sarasota	1.0.0			Florida		34242	
Lot 131 Siesta Isle		nd Block Numbers, Ta # 0107010010	ax Parce	Number, Le	gal Description, etc	<b></b> )	
A4. Building Use (	e.g., Resider	ntial, Non-Residential,	Addition	, Accessory,	etc.) Residential		5
A5. Latitude/Longi	tude: Lat. 2	7.268750	Long	32.550041	Horizontal	Datum: NAD	1927 X NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being (	 used to obtain flood	insurance.	_
A7. Building Diagn	am Number	1B		2.			
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)	)		o sq ft		
b) Number of p	permanent flo	ood openings in the cr	awispace	or enclosur	e(s) within 1.0 foot	above adjacent gra	ade n
		penings in A8.b	•	0 sq ir			
d) Engineered			la.				
			10				
A9. For a building v							
a) Square foot			12	670 sq fl			
b) Number of p	ermanent flo	ood openings in the at	tached g	arage within	1.0 foot above adja	acent grade 3	
c) Total net an	ea of flood op	enings in A9.b	·	540 sq	in		
d) Engineered	flood openin	gs? 🛛 Yes 🔲 N	10				
	i i	59					
		CTION B - FLOOD	NSURA	NCE RATE	MAP (FIRM) INFO	DRMATION	П
B1. NFIP Commun	ity Name & C	community Number		B2. County	Name		B3. State
Sarasota County 1	25144		2	Sarasota			Florida
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	M Panel ective/ rised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, us	levation(s) e Base Flood Depth)
12115C0143	F	11/04/2016	11/04/2	2016	AE	10'	
B10. Indicate the s	ource of the	Base Flood Elevation	(BFE) da	ata or base fi	ood depth entered	in Item B9:	-
☐ FIS Profile	⊠ FIRM	Community Determined	mined [	Other/Sou	rce:		
B11. Indicate eleva	ition datum u	sed for BFE in Item B	9: 🔲 N	GVD 1929	× NAVD 1988 [	Other/Source:	
B12. Is the building	located in a	Coastal Barrier Reso	urces Sv	stem (CBRS	) area or Otherwise	Protected Area (C	DPA)? ☐ Yes ☒ No
Designation [				OPA	,		
_ 24.3.14.011 6			25110	□ <u>^-</u>			
			24				. *

### **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding	information from Sec	tion A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or	Bldg. No.) or P.O. Rou	te and Box No.	Policy Number:
City Sta	te ZIP	Code	Company NAIC Number
Sarasota, F		34242	
SECTION C – BUILDING EL	EVATION INFORMAT	TION (SURVEY RI	EQUIRED)
C1. Building elevations are based on: Construction  *A new Elevation Certificate will be required when constructions.		ding Under Constru	uction* X Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE),			AE. AR/A1-A30. AR/AH. AR/AO.
Complete Items C2.a—h below according to the build Benchmark Utilized: County Benchmark/Siesta Bea	ding diagram specified i	in Item A7. In Puert	
Indicate elevation datum used for the elevations in it			_f0
□ NGVD 1929 □ NAVD 1988 □ Other/S		w.	
Datum used for building elevations must be the same		BFE.	
			Check the measurement used.
a) Top of bottom floor (including basement, crawlsp	pace, or enclosure floor)	)	10.70 × feet meters
b) Top of the next higher floor			22.30 X feet  meters
c) Bottom of the lowest horizontal structural member	er (V Zones only)	·	N/A feet meters
d) Attached garage (top of slab)			7.45 X feet meters
e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Com	vicing the building nments)		12.70 X feet meters
f) Lowest adjacent (finished) grade next to building	(LAG)	-	6.20 X feet  meters
g) Highest adjacent (finished) grade next to building	(HAG)		7.30 X feet  meters
h) Lowest adjacent grade at lowest elevation of dec structural support	ck or stairs, including		6.20 X feet meters
SECTION D - SURVEYOR,	ENGINEER. OR ARC	CHITECT CERTIF	ICATION
This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents	rveyor, engineer, or arc	hitect authorized by	law to certify elevation information.
statement may be punishable by fine or imprisonment ur. Were latitude and longitude in Section A provided by a lice			○ Check here if attachments.
Certifier's Name	License Number		
Thomas Robinson	4075		" edenas countes."
Title		50 - 500 C	Sold A ACTO
P.S.M.			Place
Company Name Robinson Land Surveying			Place
Address			
1960 Main Street			Here
City	State	ZIP Code	
Sarasota	Florida		144730003276700
Signature	Date 04/23/2018	Telephone 941-954-4473	Ext.
Copy all pages of this Elevation Certificate and all attachme	ents for (1) community of	ficial, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location, per	r C2(e), if applicable)	10 485 1000	-
Section C2.e) refers to the A/C unit	•		3
-			
,,			
*			

### **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding	g information from	Section A.	FOR INSURAN	CE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/o	r Bldg. No.) or P.O. F	Route and Box No.	Policy Number:	1 1 1 1
6623 Cape Leute Br	$\hat{\ }$		27	
City	ite Z	ZIP Code	Company NAIC	Number
Savasota	tl 🗵	34242		
SECTION E - BUILDING ELEY FOR ZONE A	/ATION INFORMAT AO AND ZONE A (\	FION (SURVEY NOT MITHOUT BFE)	Γ REQUIRED)	
For Zones AO and A (without BFE), complete Items E1–E complete Sections A, B,and C. For Items E1–E4, use nat enter meters.	5. If the Certificate is ural grade, if available	s intended to support e. Check the measure	a LOMA or LOMR ement used. In Pu	-F request, erto Rico only,
E1. Provide elevation information for the following and cl	ack the appropriate	hoves to show wheth	er the elevation is	abovo or bolow
the highest adjacent grade (HAG) and the lowest adj	acent grade (LAG).	DOVES TO SHOM MHERIN	ei uie eievauoii is	above or below
<ul> <li>a) Top of bottom floor (including basement,</li> </ul>				
crawlspace, or enclosure) is		feet mete	ers	below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is		_	ers above or	below the LAG.
E2. For Building Diagrams 6-9 with permanent flood ope	nings provided in Se	ction A Items 8 and/o	r 9 (see pages 1–	2 of Instructions),
the next higher floor (elevation C2.b in the diagrams) of the building is			ers 🔲 above or	below the HAG.
E3. Attached garage (top of slab) is		_	ers 🔲 above or	below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is		_	ers above or	below the HAG.
E5. Zone AO only: If no flood depth number is available,	is the top of the botto	om floor elevated in a	ccordance with the	community's
Le. Zene Ac only. If he need depart number is available,	lo 🗌 Unknown.	The local official must	certify this information	ation in Section G.
floodplain management ordinance? Yes				
floodplain management ordinance? Yes SECTION F - PROPERTY OWNE	R (OR OWNER'S R	EPRESENTATIVE) C	ERTIFICATION	
floodplain management ordinance? Yes N	•	•	11 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	FMA-issued or
floodplain management ordinance?	who completes Sect	ions A, B, and E for Z	one A (without a F	EMA-issued or fmy knowledge.
floodplain management ordinance? Yes Note   SECTION F - PROPERTY OWNE  The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sectionstatements in Section	ions A, B, and E for Z	one A (without a F	EMA-issued or f my knowledge.
floodplain management ordinance? Yes N  SECTION F - PROPERTY OWNE  The property owner or owner's authorized representative	who completes Sectionstatements in Section	ions A, B, and E for Z	one A (without a F	EMA-issued or f my knowledge.
floodplain management ordinance? Yes Note   SECTION F - PROPERTY OWNE  The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sectionstatements in Section	ions A, B, and E for Z ons A, B, and E are co	one A (without a F prect to the best of	f my knowledge.  ZIP Code
SECTION F – PROPERTY OWNE  The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The Property Owner or Owner's Authorized Representative's Address	who completes Sect statements in Section Name	ions A, B, and E for Z ns A, B, and E are co	one A (without a F prect to the best of state	f my knowledge.
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### **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corn	esponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S	uite, and/or Bldg. No.) or P.O. Route and Box N	lo. Policy Number:
5623 Cape Leute	br.	
City	State ZIP Code	Company NAIC Number
<i>Jarasota</i>	TL 34242	
SECTION	ON G - COMMUNITY INFORMATION (OPTIO	NAL)
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) ar	in management ordinance can complete d sign below. Check the measurement
G1. The information in Section C was tak engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation that has been sig sed by law to certify elevation information. (Indic	ned and sealed by a licensed surveyor, eate the source and date of the elevation
G2. A community official completed Section 2016 A Community official 201	on E for a building located in Zone A (without a	FEMA-issued or community-issued BFE)
G3. The following information (Items G4-	G10) is provided for community floodplain man	agement purposes.
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improveme	nt
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 Datum
G10. Community's design flood elevation:		feet meters Datum
Local Official's Name	Title	
Community Name	Telephone	
Signature	Date	
Comments (including type of equipment and loc	cation, per C2(a), if applicable)	
, , , , , , , , , , , , , , , , , , ,	calci, par calci, a apparation,	
		"
"		
		4 1
		_
		Check here if attachments.

### **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. **Policy Number:** 

City State

**ELEVATION CERTIFICATE** 

**ZIP Code** 

Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 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." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



FRONT VIEW 4/24/18

**Photo One Caption** 

Clear Photo One



REAR VIEW

**Photo Two Caption** 

Clear Photo Two

### **BUILDING PHOTOGRAPHS**

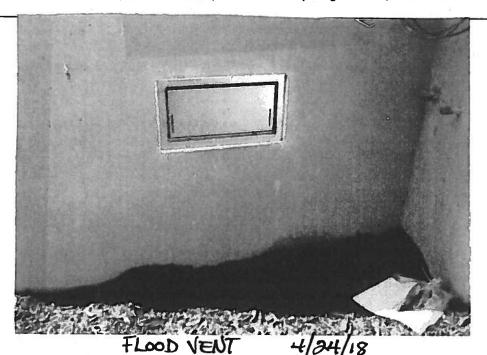
### **ELEVATION CERTIFICATE**

**Continuation Page** 

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

IMPORTANT: In these spaces, copy the co	rresponding inform	ation from Section A.	FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.			Policy Number:	
city Savasota	State FL	ZIP Code	Company NAIC Number	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



**Photo Three Caption** 

Clear Photo Three

**Photo Four** 

**Photo Four Caption** 

Clear Photo Four

Photo Four



Most Widely Accepted and Trusted

### **ICC-ES** Report

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

**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



Look for the trusted marks of Conformity!

"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"





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### **ICC-ES Evaluation Report**

**ESR-2074** 

Reissued February 2015 Revised May 2016

This report is subject to renewal February 2017.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

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<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

<sup>†</sup>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<sup>®</sup> 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<sup>®</sup> 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 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 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<sup>®</sup> 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	<b>MODEL SIZE (in.)</b>	COVERAGE (sq. ft.)	
FloodVENT®	1540-520	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
SmartVENT®	1540-510	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
FloodVENT® Overhead Door	1540-524	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
SmartVENT® Overhead Door	1540-514	15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> "	200	
Wood Wall FloodVENT®	1540-570	14" X 8 <sup>3</sup> / <sub>4</sub> "	200	
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 <sup>3</sup> / <sub>4</sub> "	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 = m<sup>2</sup>

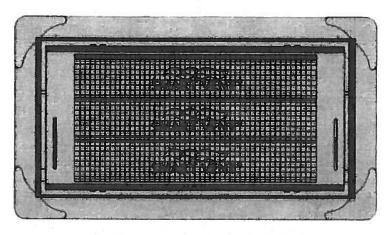


FIGURE 1—SMART VENT: MODEL 1540-510

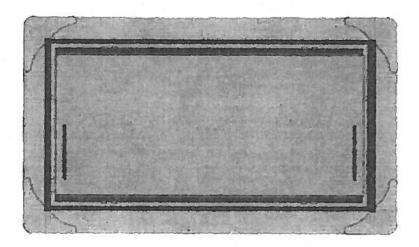


FIGURE 2—SMART VENT MODEL 1540-520

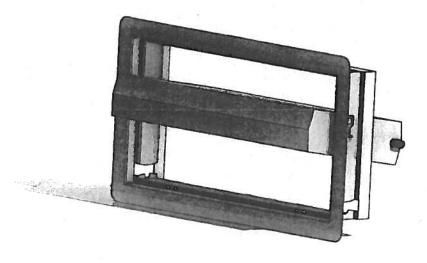


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



### **ICC-ES Evaluation Report**

### **ESR-2074 FBC Supplement**

Reissued February 2015 Revised March 2016

This report is subject to renewal February 2017.

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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 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<sup>®</sup> 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).

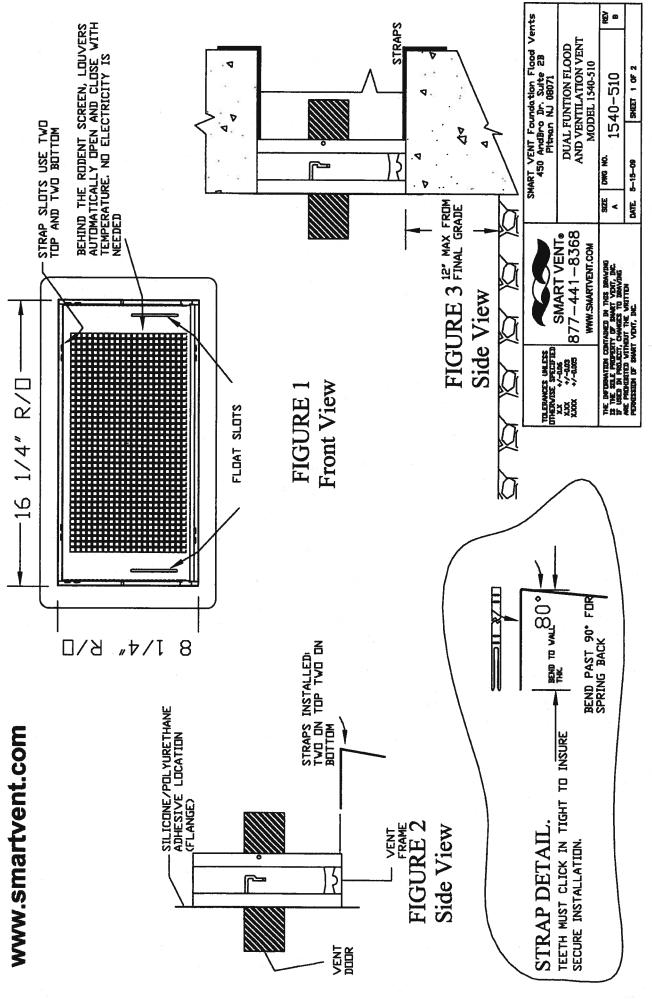
This supplement expires concurrently with the master report, reissued February 2015 and revised May 2016.





### DETAIL DIAGRAM MODEL 1540-510

DUAL FUNCTION FLOOD AND VENTILATION VENT



## INSTALLATION INSTRUCTIONS & DETAILS

MODEL 1540-510

DUAL FUNCTION FLOOD AND VENTILATION VENT REV. 5-15-09

# INSTALLATION INSTRUCTIONS

www.smartvent.com

- 1. Remove vent door from vent frame. (Turn upside down, rotate bottom of door outward and slide out)
- 2. Prepare a CLEAN 16.25" wide by 8.25" high rough opening (approx. 1 block wide X 1 block high) for each vent. Ensure the bottom of the rough opening is no more than 12" above the finished grade.
- 3. Apply a bead of silicone or polyurethane adhesive around the back of the flange on the vent frame. (FIG. 2)
- Bend the 4 steel straps to the thickness of the wall measuring from the end with the teeth (see STRAP DETAIL)
  - 5. Insert the top straps into the top two strap slots about two clicks.
- Push the frame tight against the face of the wall. Ensure the frame is flush and square in the opening. (FIG. 3) Insert the vent frame in the cut opening. The bent strap ends go in then up behind the inside of the wall.
- Reach through the vent opening and click the two straps in while holding the front of the vent against the wall face. The sharp point of the straps should not extend past the front of the vent face. Install the two remaining bottom straps.
- 8. Re-check that frame is square and slots are clear of debris, and caulk.
- 9. Install the door into frame by grasping the bottom of door (with float pins down) and front (small screen in front). Slide door into frame and rotate until it is latched.
- To open the door insert two credit cards into the float slots as shown in the diagram. This will unlatch the door for removal and cleaning.

DETAILED SPECIFICATIONS

MATERIAL: STAINLESS STEEL
OPERATION FLOOD: AUTOMATIC NON-POWERED ACTIVATION AND OPERATION
VENT REMAINS CLOSED AND LOCKED UNTIL ACTIVATED

OPERATION AIR: AUTOMATIC LOUVERS FULLY OPEN AT 75 DEG. FULLY CLOSED AT 35 DEG. NO POWER REQUIRED

INSTALLATION:

SECURED W/ 4 STAINLESS STEEL STRAPS SUPPLIED HYDROSTATIC RELIEF: 200 Sq. Ft per Vent VENTILATION: 51 Sq. in. per Vent NOTE: VAPOR BARRIER ALLOWS FOR REDUCED VENTILATION

REQUIREMENTS FLOOD: MINIMUM OF 2 VENTS PER ENCLOSED AREA MOUNTED ON AT LEAST TWO DIFFERENT WALLS

COLORS: STAINLESS (STANDARD)

EXTERIOR POWDER COATED WHITE, WHEAT, GRAY, AND BLACK (AVAILABLE)

MEETS THE REQUIREMENTS FOR ENGINEERED OPENINGS AS SET FORTH BY: SUPPORTIVE DOCUMENTS, TB 1-08, 44CFR 60.3(C)(5), ASCE 24-05 ICC EVALUATION # ESR-2074 FEMA, NFIP, ICC, & ASCE



### MATERIAL REVIEW & MAINTENANCE INSTRUCTIONS

### Objective:

When we set out to design our flood vent products, a comprehensive study was conducted to determine the most important design attributes that would be needed to insure that our customers received the best product available. Because our company started on the shores of the East Coast of New Jersey, everyone placed durability as their number one concern.

### **Durability:**

After extensive research, including review of many less expensive materials, we choose to make the bulk of the components for our vents from stainless steel. Salt will pit stainless steel unless it is rinsed with water. We recommend that the vent be washed with fresh water twice a year. Any red rust or minor surface pitting can be removed with "commercial de-rusting solutions."

The mechanism that operates the automatic louvers on models 1540-510, 1540-511, 1540-514 and 1540-550 is also entirely made from stainless steel, and water rinsing will reduce corrosion and dirt build-up. Prior to final inspection and testing, the louver mechanism is lubricated with a dry film lubricant. This over the counter lubricant should be applied at minimum one time per year, or when needed. Rinse the louver mechanism, let dry, then spray all of the moving parts. Note: Wet lubricants or grease will allow dirt and sand to accumulate on the moving parts. Use only dry film lubricants.

The bi-metal coil is made from highly engineered materials. The composite contains a large portion of Nickel and the finished coil is secondarily heat-treated, which forms a protective barrier to protect it from the elements. A squirt of dry film lubricant into the coil chamber during maintenance will extend its life.

The floats are manufactured from engineered plastics. An ultra-violet inhibitor was blended into the raw material before molding to insure that the sun does not degrade the functional or dimensional characteristics of the material. Insert a thin blade or a credit card into each side of the vent door's float slot, and the door will easily push open. Rinse the float cavity, then apply a small amount of dry film lubricant on the float, where it contacts the frame.

Like any product, the care one gives will determine its life. We have used the best American materials, along with the best engineering and manufacturing professionals to build our products. With just a little care, your vents will function carefree for many years.

