

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

E0090

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

SECTION A - PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name JAMES W. DUFFY		Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6855 GULF OF MEXICO DRIVE		Company NAIC Number:
City LONGBOAT KEY	State Florida	ZIP Code 34228
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) A PORTION OF TAX PARCEL NUMBER 78059.0045/9		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u>		
A5. Latitude/Longitude: Lat. <u>27°26'00.8"</u> Long. <u>082°41'04.5"</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> 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 <u>6</u>		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s) <u>1641</u> sq ft		
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>10</u>		
c) Total net area of flood openings in A8.b <u>2,000</u> sq in		
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
a) Square footage of attached garage <u>N/A</u> sq ft		
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>		
c) Total net area of flood openings in A9.b <u>N/A</u> sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number TOWN OF LONGBOAT KEY 125126		B2. County Name MANATEE COUNTY		B3. State Florida	
B4. Map/Panel Number 12081C0291	B5. Suffix E	B6. FIRM Index Date 3-17-2014	B7. FIRM Panel Effective/ Revised Date 3-17-2014	B8. Flood Zone(s) AE & VE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 10 & 11

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
 FIS Profile FIRM Community Determined Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No
 Designation Date: _____ CBRS OPA

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IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
 6855 GULF OF MEXICO DRIVE

City: LONGBOAT KEY State: FLORIDA ZIP Code: 34228

FOR INSURANCE COMPANY USE

Policy Number:
 Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
 *A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: SEE COMMENTS Vertical Datum: N.A.V.D. 1988

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

- | | | |
|--|-------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>5.5</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>16.1</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>14.4</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>5.1</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) | <u>14.4</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>4.5</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>5.3</u> | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>N/A</u> | <input type="checkbox"/> feet <input type="checkbox"/> meters |

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No Check here if attachments.

Certifier's Name: LEO MILLS, JR. License Number: FL 3513

Title: REGISTERED SURVEYOR

Company Name: LEO MILLS & ASSOCIATES, INC.

Address: 620 8th AVENUE WEST

City: PALMETTO State: Florida ZIP Code: 34221

Signature: *[Handwritten Signature]* Date: 3/29/2017 Telephone: 941-722-2460

3-29-17

[Handwritten Signature]
 Place Seal Here

PLS #3513

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

Comments (including type of equipment and location, per C2(e), if applicable)

SOURCE BENCHMARK: DNR MONUMENT R-47 ELEVATION = 5.82 FEET N.A.V.D. 1988
 A8c: NUMBER REPRESENTS THE TOTAL SQUARE INCHES OF THE 10 FLOOD OPENINGS NOTED IN A8b, ALL BEING SMART VENTS MODEL #1540-520. ICC-ES REPORT # ESR-2074 INDICATES A FLOW RATE OF 200 SQUARE INCHES FOR THIS MODEL

C2a- ELEVATION SHOWN IS FOR THE ENTRY C2e- ELEVATION SHOW IS FOR THE TOP OF THE PLATFORM FOR THE AIR CONDITIONING UNIT

CALCULATIONS FOR FLOW RATES PROVIDED HEREON ARE BASED ON INFORMATION ESTABLISHED BY OTHERS AND ARE NOT CERTIFIED AS ACCURATE BY THE SIGNING SURVEYOR. SEE ATTACHED ENGINEERS CERTIFICATION REGARDING BREAKAWAY WALLS.

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FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
 - a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1-2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

Address

City

State

ZIP Code

Signature

Date

Telephone

Comments

Check here if attachments.

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TOWN OF LONGBOAT KEY
Planning, Zoning and Building

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB Control Number: 1660-0008

Expiration: 11/30/2018

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.
6855 GULF OF MEXICO DRIVE

Policy Number:

City LONGBOAT KEY

State Florida

Zip Code 34228

Company NAIC Number:

If using the Elevation Certificate to obtain NFIP 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 that will fit on this page, use the Continuation Page. It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer

PHOTO 1



PHOTO ONE CAPTION: FRONT VIEW

PHOTO 2



Job# E0090

PHOTO TWO CAPTION: REAR VIEW

LP Mills
Leo Mills, Jr.
Date 3/29/17
P.L.S. 3513

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ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

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.
6855 GULF OF MEXICO DRIVE

Policy Number:

City LONGBOAT KEY

State Florida

Zip Code 34228

Company NAIC Number:

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PHOTO 3



PHOTO THREE CAPTION: RIGHT VIEW

PHOTO 4



Job# E0090

PHOTO FOUR CAPTION: LEFT VIEW

Leo Mills, Jr.
Leo Mills, Jr.
Date 3/29/17
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ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS – ATTACHMENT 1

See Instructions for Item A6.

OMB Control Number: 1660-0008

Expiration: 11/30/2018

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.
6855 GULF OF MEXICO DRIVE

Policy Number:

City LONGBOAT KEY

State Florida

Zip Code 34228

Company NAIC Number:

If using the Elevation Certificate to obtain NFIP 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 that will fit on this page, use the Continuation Page. It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer

PHOTO 5

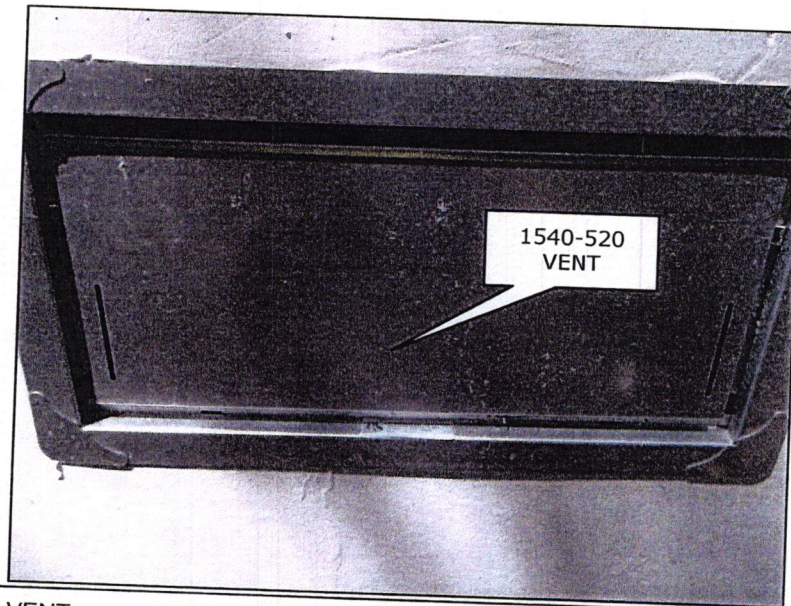
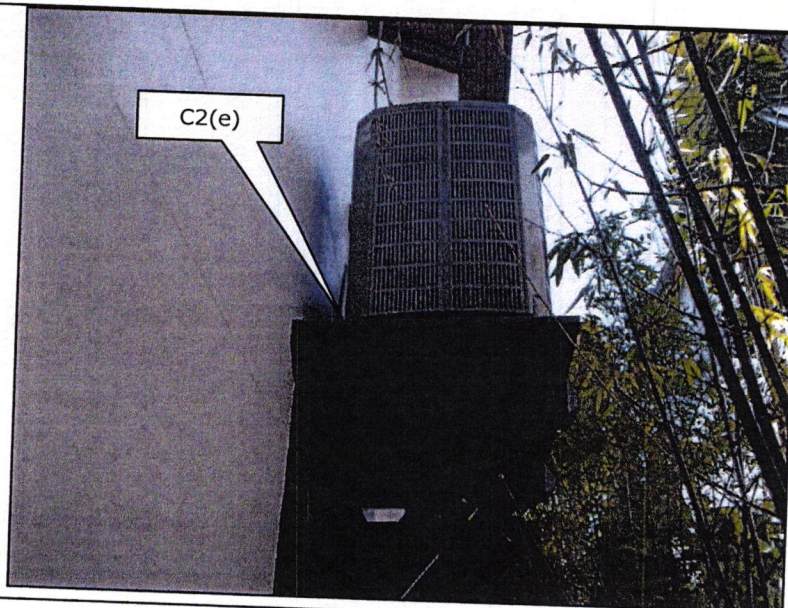


PHOTO FIVE CAPTION: SMART VENT

PHOTO 6



Job# E0090

Leo Mills, Jr.
Date 3/29/17
P.L.S. 3513

PHOTO SIX CAPTION: LOWEST MACHINERY SERVICING THE BUILDING

V- ZONE DESIGN CERTIFICATE

Name _____ Policy Number (Insurance Co. Use) _____
Building Address or Other Description 6855 Gulf of Mexico Drive
Permit No. _____ City Longboat Key State FL Zip Code 34228

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No. 125126 Panel No. 0291 Suffix E FIRM Date 03/17/2014 FIRM Zone(s) VE

SECTION II: Elevation Information Used for Design

[NOTE: This section documents elevations used in the design – it does not substitute for an as-built Elevation Certificate.]

1. Datum..... NGVD NAVD Other
2. Elevation of the Bottom of Lowest Horizontal Structural Member 14.5 feet above datum
3. Base Flood Elevation (BFE)..... 11.0 feet above datum
4. Elevation of Lowest Adjacent Grade 4.0 feet above datum
5. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design..... 1.0 feet above datum
6. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade..... 36.0 feet below datum

SECTION III: V Zone Design Certification Statement

[NOTE: This section must be certified by a Florida licensed engineer or architect.]

I certify: (1) that I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (with the exception of mat or raft foundations, piling, pile caps, columns, grade beams and bracing) is elevated to or above the BFE in accordance with the requirements of the *Florida Building Code* and local floodplain management regulations; and
- The pile and column foundation and building or structure to be attached thereto is designed in accordance with the *Florida Building Code* to be anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and flood loads acting simultaneously on all building components, and other load requirements of the *Florida Building Code*. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

SECTION IV: Breakaway Wall Design Certification Statement

[NOTE: This section must also be certified by a Florida licensed engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot. This requirement does not apply to open wood/plastic lattice/slats/louvers or insect screening.]

I certify: (1) that I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used for the breakaway walls are in accordance with the *Florida Building Code, Building (ASCE 24) or Florida Building Code, Residential*, as applicable, and accepted standards of practice.

SECTION V: Certification and Seal

This certification is to be signed and sealed by a Florida licensed professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement in Section III and the Breakaway Wall Design Certification Statement in Section IV (if applicable).

Certifier's Name Charles Sego License Number P.E. 59173
Title Structural Engineer Company Name SEGO & SEGO, LLC
Address P.O. 2106 City Anna Maria State FL ZIP 34216
Signature Charles Sego Date 2017.02.22 Telephone 941-778-8204

Digitally signed by Charles Sego
DN: cn=US,
E=sego.ami@stamapabay.fl.com,
C=US, Charles Sego
Date: 2017.02.22 11:06:32-0500





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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**



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TOWN OF ESSEX PLANNING, ZONING AND BUILDING

ICC-ES Evaluation Report
ESR-2074

Reissued February 2015

Revised May 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 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 square feet (37.2 m²) of enclosed area.

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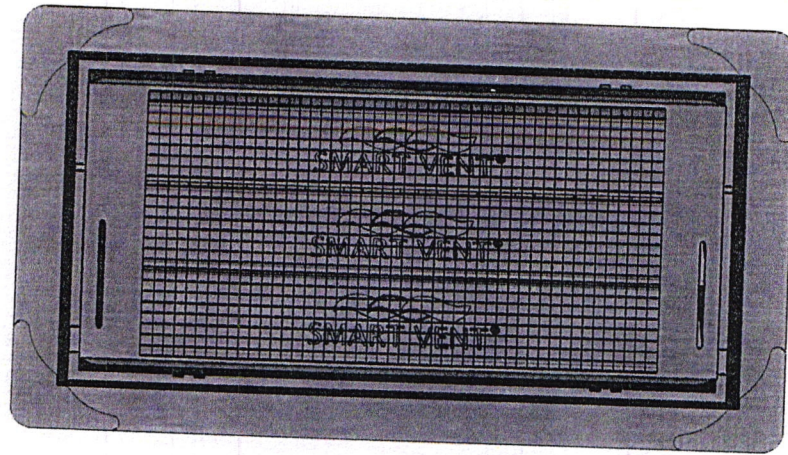


FIGURE 1—SMART VENT: MODEL 1540-510

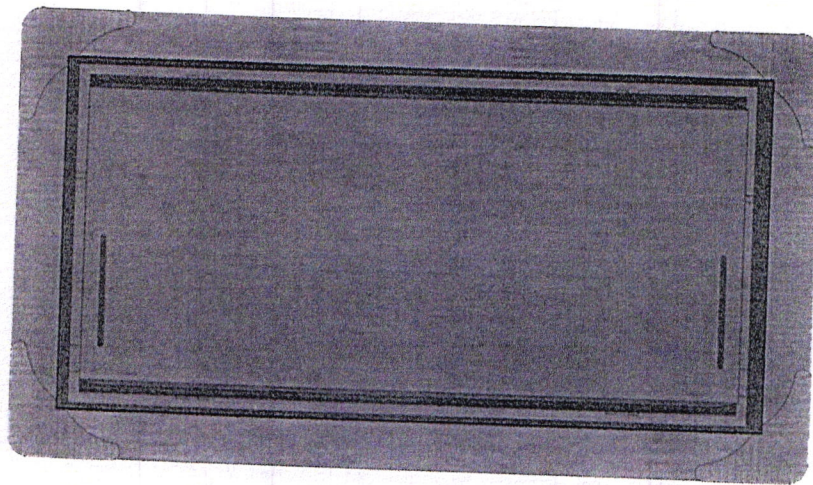


FIGURE 2—SMART VENT MODEL 1540-520

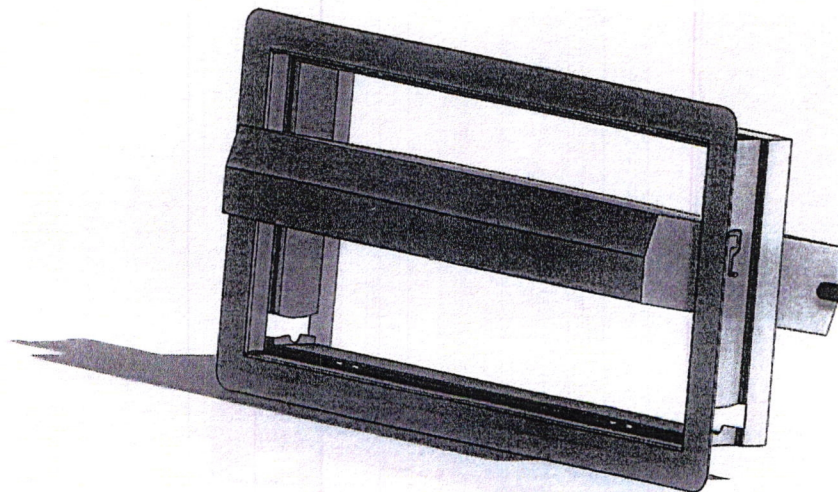


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

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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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) 441-8368www.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® 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.