

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

SECTION A - PROPERTY INFORMATION				FOR INSURANCE	
A1. Building Owner's Name STEVEN LACHER				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 541 ALLIGATOR DRIVE				Company NAIC N	
City VENICE		State Florida		ZIP Code 34293	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) COUNTY TAX PARCEL #0458040001					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u>					
A5. Latitude/Longitude: Lat. <u>27.050575N.</u> Long. <u>-82.41614W.</u> Horizontal Datum: <input type="checkbox"/> NAD 1927					
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>300</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>4</u>					
c) Total net area of flood openings in A8.b <u>512</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>NA</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>NA</u>					
c) Total net area of flood openings in A9.b <u>NA</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 SARASOTA 125144			B2. County Name SARASOTA		B3. Flor
B4. Map/Panel Number 12115C/0341F	B5. Suffix F	B6. FIRM Index Date 11/04/2016	B7. FIRM Panel Effective/ Revised Date 11/04/2016	B8. Flood Zone(s) AE	B9. Base Flood Elevation (Zone AO, use Base 10.0
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

ELEVATION CERTIFICATE

OMB No. 1660-00
Expiration Date: N

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 541 ALLIGATOR DRIVE			Policy Number:
City VENICE	State FLORIDA	ZIP Code 34293	Company NAIC N

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finish
*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, A
Complete items C2.a–h below according to the building diagram specified in item A7. In Puerto Rico only, enter
Benchmark Utilized: COUNTY BENCH MARK SYSTEM Vertical Datum: 1929 NGVD

Indicate elevation datum used for the elevations in items a) through h) below.
 NGVD 1929 NAVD 1988 Other/Source: _____

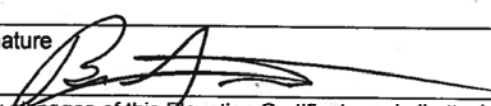
Datum used for building elevations must be the same as that used for the BFE.

		Check the mea
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>6.4</u>	<input checked="" type="checkbox"/> feet
b) Top of the next higher floor	<u>18.0</u>	<input checked="" type="checkbox"/> feet
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>NA</u>	<input type="checkbox"/> feet
d) Attached garage (top of slab)	<u>NA</u>	<input type="checkbox"/> feet
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>18.0</u>	<input checked="" type="checkbox"/> feet
f) Lowest adjacent (finished) grade next to building (LAG)	<u>6.2</u>	<input checked="" type="checkbox"/> feet
g) Highest adjacent (finished) grade next to building (HAG)	<u>6.3</u>	<input checked="" type="checkbox"/> feet
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>6.0</u>	<input checked="" type="checkbox"/> feet

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. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that this 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

Certifier's Name BRUCE LINDH		License Number P.L.S. #4306	
Title LAND SURVEYOR			
Company Name BRUCE LINDH LAND SURVEYOR, INC,			
Address 1380 CAMBRIDGE DRIVE			
City VENICE	State Florida	ZIP Code 34293	
Signature 	Date 02/06/2020	Telephone 941-496-7828	Ext.



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

Comments (including type of equipment and location, per C2(e), if applicable)
1) LATITUDE AND LONGITUDE BY; LATLONG.NET..2) A/C ON ELEVATED DECK AT REAR OF BUILDING (EAST SIDE) ENGINEERED FLOOD VENTS @ 200 SQUARE INCHES EACH FOR A TOTAL OF 800 SQUARE INCHES, GREATER THAN 1000 SQUARE FEET OF ENCLOSURE AT LOWEST FLOOR..4) SEE CONTRACTOR/VENT MANUFACTURER TO SUPPLY ENGINEERING CALCULATIONS FOR ENGINEERED VENTS.. 5) THIS CERTIFICATE REPLACES CERTIFICATE P 02/03/2020..

ELEVATION CERTIFICATE

OMB No. 1660-00
Expiration Date: N

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 541 ALLIGATOR DRIVE			Policy Number:
City VENICE	State FLORIDA	ZIP Code 34293	Company NAIC N

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) 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, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico, enter meters.

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

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 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
Signature	Date	Telephone

Comments

Check here

BUILDING PHOTOGRAPHS

OMB No. 1660-0044
Expiration Date: N/A

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

FOR INSURANCE

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
541 ALLIGATOR DRIVE

Policy Number:

City
VENICE

State
FLORIDA

ZIP Code
34293

Company NAIC N

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below as instructed in Section A8. 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 vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



FRONT VIEW

Photo One

Photo One Caption



RIGHT SIDE

Photo Two

Photo Two Caption

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-00

Expiration Date: N

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.

541 ALLIGATOR DRIVE

FOR INSURANCE

Policy Number:

City

VENICE

State

FLORIDA

ZIP Code

34293

Company NAIC N

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



REAR VIEW

Photo Three

Photo Three Caption



LEFT SIDE

Photo Four

Photo Four Caption

ICC-ES Evaluation Report

ES

Reissued February 2017

This report is subject to renewal February 2018

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®* (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 pressure. Each unit is fabricated from stainless steel. Automatic Foundation Flood Vents are available in various models and sizes as described in the report. SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each consist of 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, IRC)] for a maximum rate of rise and fall of 1/4 inch per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vents must be installed in accordance with Section 2.7.3.3.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and FloodVENT® Overhead Door Model #1540-514 both have a net free area of 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® 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 provide natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of enclosure construction from the exterior side. Installation must be in accordance with the manufacturer's instructions, the applicable code and the report. Installation clips allow mounting in masonry 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)] Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different walls of each enclosed area.
- With a minimum of one FV for every 100 square feet (9.3 m²) of enclosed area, except SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 which 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® 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 (AC108) 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.)	COVERAG
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	20
SmartVENT®	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	20
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	20
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	20
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	20
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	20
SmartVENT® Stacker	1540-511	16" X 16"	40
FloodVent® Stacker	1540-521	16" X 16"	40

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

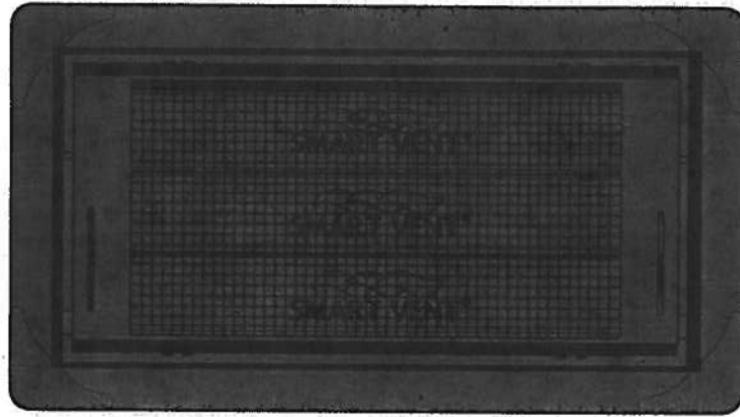


FIGURE 1—SMART VENT: MODEL 1540-510

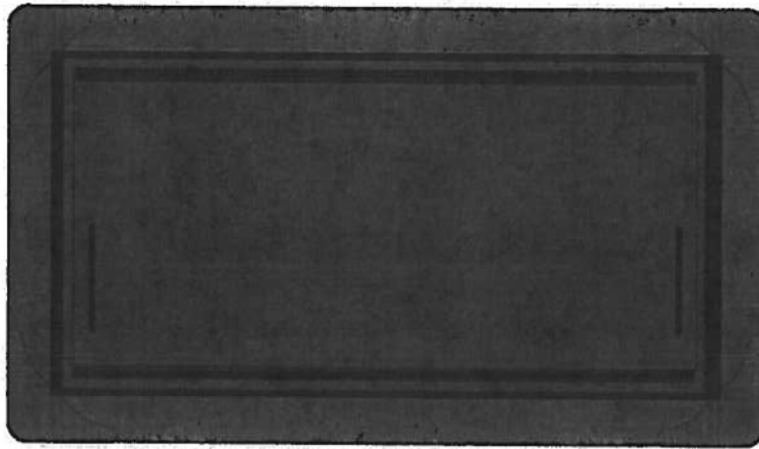


FIGURE 2—SMART VENT MODEL 1540-520

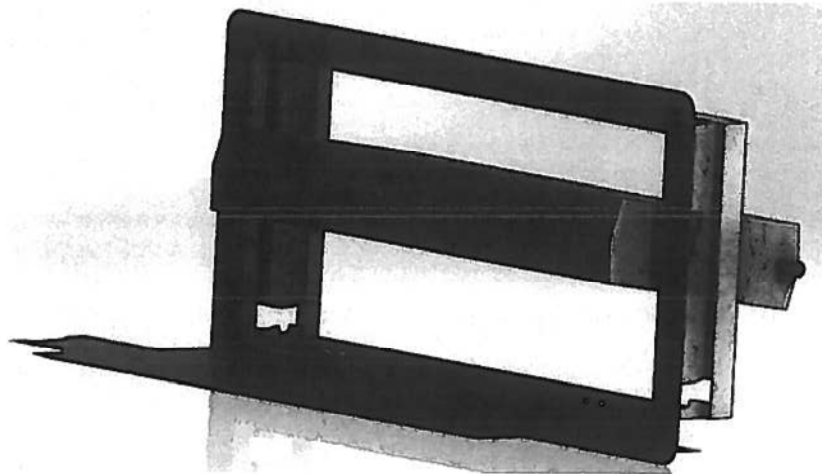


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN