

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 owner.

SECTION A - PROPERTY INFORMATION						FOR INSURANCE COMPANY USE
A1. Building Owner's Name ELLEN S. ODENATH					Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2913 GULF OF MEXICO DRIVE					Company NAIC Number:	
City TOWN OF LONGBOAT KEY			State Florida		ZIP Code 34228	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOTS 21 & 22, BLOCK B, COQUINA BEACH SUB., PID#0005160005						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)					RESIDENTIAL	
A5. Latitude/Longitude: Lat. <u>27d22'07.60"N</u> Long. <u>82d37'40.55"W</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>1711.00</u> sq ft						
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>9</u>						
c) Total net area of flood openings in A8.b <u>459.00</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>718.00</u> sq ft						
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>4</u>						
c) Total net area of flood openings in A9.b <u>204.00</u> sq in						
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & Community Number TOWN OF LONGBOAT KEY, FLORIDA 125126				B2. County Name SARASOTA		B3. State Florida
B4. Map/Panel Number 12115C0107	B5. Suffix F	B6. FIRM Index Date 11-04-2016	B7. FIRM Panel Effective/ Revised Date 11-04-2016	B8. Flood Zone(s) VE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 12	
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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA						

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ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

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. 2913 GULF OF MEXICO DRIVE			Policy Number:
City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	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: DNR MONUMENT #R-10 RESET Vertical Datum: NGVD 1929

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 measurement used.

- | | | | |
|---|-------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>8.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>20.3</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>18.3</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab) | <u>8.3</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>12.2</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>7.5</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>8.0</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>7.5</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |

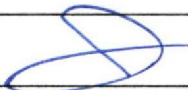
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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 JAMES B. AMBERGER	License Number LS6333
Title PRESIDENT	
Company Name JIM AMBERGER LAND SURVEYING LLC	
Address 1055 S. TAMiami TRAIL, SUITE 110-B	
City SARASOTA	State Florida
	ZIP Code 34236



Signature  Date 6/10/2020 Telephone (941) 955-6333 Ext.

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)
C2: ELEVATIONS CONVERTED USING CORPSCON6 CONVERSION SOFTWARE.
C2e: ELECTRICAL SERVICE PANEL LOCATED ON NORTH SIDE OF RESIDENCE.
A9(a/d): SMARTVENT MODEL 1540-520. THESE VENTS ARE RATED TO PROVIDE SUFFICIENT HYDROSTATIC PRESSURE FOR 200 SQUARE FEET EACH.

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City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	Company NAIC Number

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 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

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Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008
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City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	Company NAIC Number

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4–G10) is provided for community floodplain management 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 Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ 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 location, per C2(e), if applicable)

Check here if attachments.

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

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City TOWN OF LONGBOAT KEY	State Florida	ZIP Code 34228	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.



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Photo One

Photo One Caption **FRONT VIEW**

Clear Photo One



Photo Two

Photo Two Caption **REAR VIEW**

Clear Photo Two

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
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City TOWN OF LONGBOAT KEY	State Florida
ZIP Code 34228	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

Photo Three Caption TYPICAL FLOW-THRU VENT

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four

Note: The V Zone design certificate is not a substitute for the NFIP Elevation Certificate (see Fact Sheet No. 1.4, *Lowest Floor Elevation*), which is required to certify as-built elevations needed for flood insurance rating.

V ZONE DESIGN CERTIFICATE

Name David and Ellen Odenath Policy Number (Insurance Co. Use) _____
Building Address of Other Description 2913 Gulf Of Mexico Drive
Permit No. PB18-1056 City Longboat Key State FL Zip Code 34228

SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No. 126128 Panel No. 0107F Suffix FIRM Date 11-4-16 FIRM Zone(s) VE 12

SECTION II: Elevation Information Used for Design

[NOTE: This section documents the elevations/depths used or specified in the design – it does not document surveyed elevations and is not equivalent to the as-built elevations required to be submitted during or after construction.]

- | | | |
|--|------|-------|
| 1. FIRM Base Flood Elevation (BFE)..... | 12 | feet* |
| 2. Community's Design Flood Elevation (DFE)..... | 15 | feet* |
| 3. Elevation of the Bottom of Lowest Horizontal Structure Member..... | 18.3 | feet* |
| 4. Elevation of Lowest Adjacent Grade..... | 7.6 | feet* |
| 5. Depth of Anticipated Scour/Erosion used for Foundation Design..... | 5 | feet |
| 6. Embedment Depth of Pilings of Foundation Below Lowest Adjacent Grade..... | 35 | feet |

* Indicate elevation datum used in 1-4: NGVD29 NAVD88 Other _____

SECTION III: V Zone Design Statement

I state that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of the above-referenced building and (2) that the design and methods of construction specified 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 (excluding piles and columns) is elevated to or above the BFE.
- The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood***. Wind loading values used are those required by the applicable State or local 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 Statement

[NOTE: This section must be certified by a registered engineer or architect when breakaway walls are designed to have a resistance of more than 20 psf (0.96 kN/m2) determined using allowable stress design]

I state that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of breakaway walls to be constructed under the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with accepted standards of practice** for meeting the following provisions:

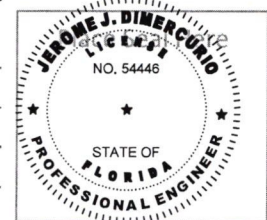
- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood***.
- The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (see Section III).

SECTION V: Seal

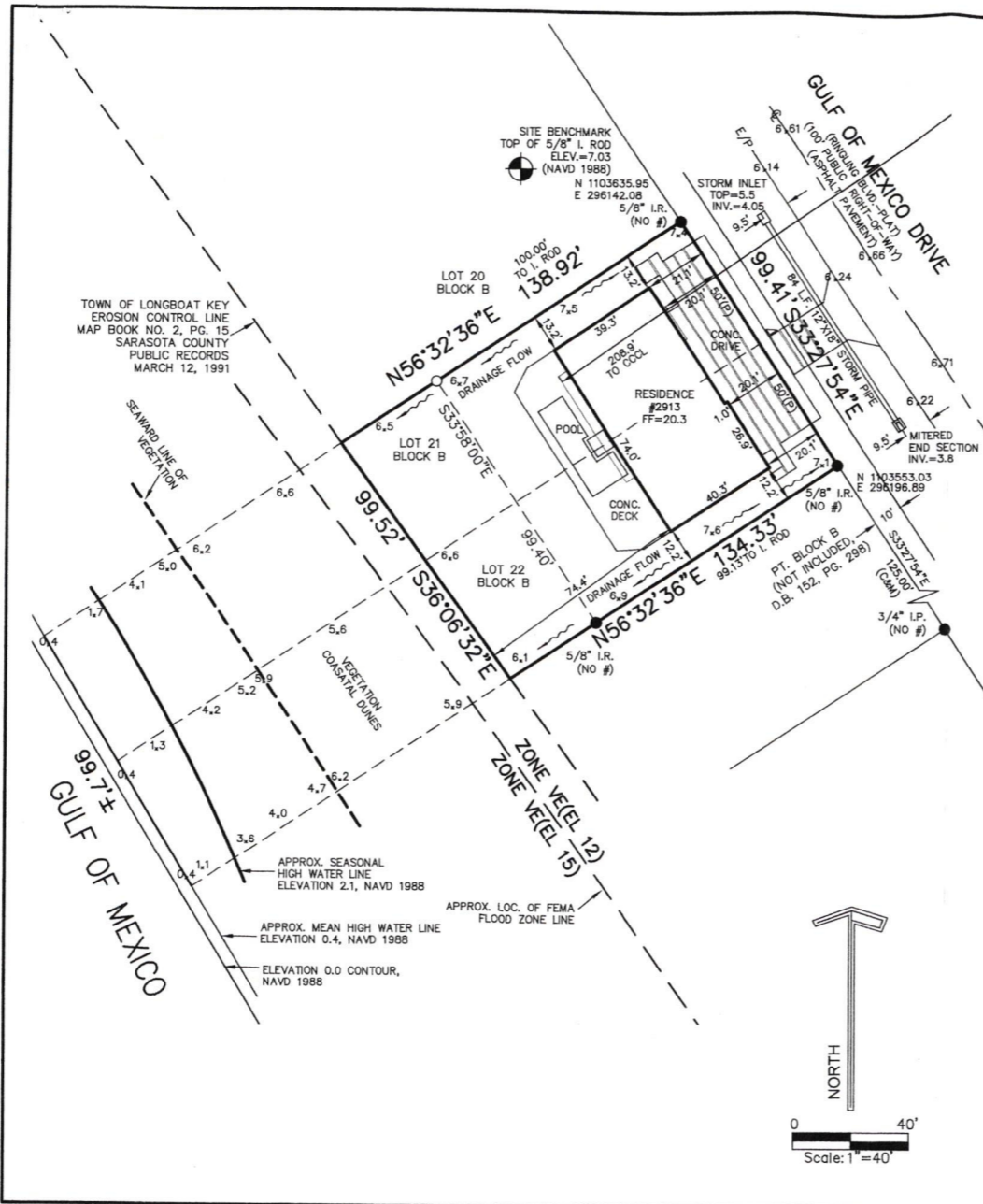
This statement is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I state the V Zone Design Certification Statement (Section III) and X the Breakaway Wall Design Certification Statement (Section IV, check if applicable).

Jay Dimercurio Digitally signed by Jay Dimercurio
Date: 2020.06.15 11:50:19 -04'00'

Certifier's Name Jerome DiMercurio PE License Number 54446
Title Engineering Manager Company Name Karins Engineering
Address 1626 Ringling Blvd. Suite #400
City Sarasota State FL Zip Code 34231
Signature _____ Date 06-11-2020 Telephone 9419278525



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SURVEYOR'S REPORT:

1. DATE OF MOST RECENT FIELD SURVEY: 6-3-2020.
2. IMPROVEMENTS SUCH AS, BUT NOT LIMITED TO, LANDSCAPE FEATURES, UNDERGROUND UTILITIES AND FOUNDATIONS NOT LOCATED OR SHOWN.
3. OWNERSHIP OF FENCES NOT DETERMINED BY SURVEYOR.
4. THIS SURVEY PERFORMED WITHOUT BENEFIT OF TITLE ABSTRACT.
5. BEARINGS BASED ON THE LINE FROM DNR MONUMENT 17-84-A03 TO DNR MONUMENT 17-84-A06 HAVING A BEARING OF S37°45'54"E AS CALCULATED AND MEASURED.
6. ELEVATIONS BASED ON DNR MONUMENT R-10 RESET, WITH A PUBLISHED ELEVATION OF 5.06, NGVD 1929 (4.04, NAVD 1988). ELEVATIONS SHOWN WERE CONVERTED TO NAVD 1988 DATUM USING CORPSCON6 CONVERSION SOFTWARE, RESULTING IN A NET CHANGE IN ELEVATION OF (-)1.02 FEET, NAVD88 VS 0.00 FEET NGVD 1929 DATUM. UNLESS OTHERWISE NOTED, ALL ELEVATIONS SHOWN ARE IN NAVD88 DATUM.
7. SUBJECT PROPERTY LOCATED IN FIRM ZONE VE(EL 12) AS SCALED FROM FEMA MAP PANEL #12115C0107F, DATED 11/4/2016 (FIRM ZONE LEVELS BASED ON MAVD 1988 DATUM).
8. ALL COORDINATES SHOWN REFERENCED TO NAD 83/90 (U.S. SURVEY FOOT).
9. THE APPROXIMATE MEAN HIGH WATER LINE HAS BEEN SHOWN HEREON DUE TO IT'S BEING INCIDENTAL TO THE PURPOSE FOR WHICH THIS SURVEY WAS PREPARED. SAID APPROXIMATE MEAN HIGH WATER LINE IS NOT A TIDAL PROPERTY BOUNDARY, WAS NOT LOCATED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE "COASTAL MAPPING ACT OF 1971" (CHAPTER 177, PART II OF THE FLORIDA STATUTES) AND/OR THE RULES OF THE DEPARTMENT OF NATURAL RESOURCES (CHAPTER FCM 16-3 OF THE FLORIDA ADMINISTRATIVE CODE) AND IS NOT TO BE USED AS, REPRESENTED TO BE, OR BE ADMISSIBLE AS A TIDAL BOUNDARY LINE BEFORE ANY ADMINISTRATIVE BODY OR COURT OF LAW.
10. AREA OF PROPERTY: 13,580 SQUARE FEET.

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LEGAL DESCRIPTION:

LOTS 21 AND 22, BLOCK B, COQUINA BEACH, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 1, PAGE 203, OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.
 LESS ROAD RIGHT-OF-WAY RECORDED IN DEED BOOK 152, PAGE 298 AND DEED BOOK 152, PAGE 300 OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA

LEGEND AND ABBREVIATIONS:

- C.B. CONCRETE BLOCK
- E/P EDGE OF PAVEMENT
- R/W RIGHT-OF-WAY
- (M) MEASURED DIMENSION
- (P) PLAT DIMENSION
- (C) CALCULATED DIMENSION
- F.F. FINISHED FLOOR ELEVATION
- DNR DEPARTMENT OF NATURAL RESOURCES
- CCCL COASTAL CONSTRUCTION CONTROL LINE
- GBSL GULF BEACH SETBACK LINE
- O/A OVERALL
- ▽ PALM TREE
- IRON ROD (I.R.) OR IRON PIPE (I.P.) FOUND
- CONCRETE MONUMENT (C.M.) FOUND
- 5/8" I. ROD SET W/CAP PSM#6333
- UTILITY POLE
- 4x5 SPOT ELEVATION

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY TO:
 DAVE & ELLEN ODENATH;
 THAT THIS BOUNDARY SURVEY WAS PREPARED UNDER MY DIRECTION AND SUPERVISION, THAT TO THE BEST OF MY KNOWLEDGE, IT IS A TRUE REPRESENTATION OF THE LANDS SHOWN HEREON AND THAT IT MEETS THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF FLORIDA, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

G/10/2020
 JAMES B. AMBERGER DATE
 PROFESSIONAL SURVEYOR AND MAPPER
 FLORIDA CERTIFICATE No. 6333
 (NOT VALID WITHOUT SURVEYOR'S SIGNATURE
 AND EMBOSSED WITH SURVEYOR'S SEAL)

BOUNDARY SURVEY
 LOTS 21 & 22, BLOCK B,
 LESS THE NORTHEASTERLY 10 FEET,
 COQUINA BEACH,
 PLAT BOOK 1, PAGE 203, SARASOTA COUNTY,
 TOWN OF LONGBOAT KEY, FLORIDA

JIM AMBERGER
LAND SURVEYING, LLC
 1055 South Tamiami Trail, Suite 110-B
 Sarasota, FL 34236
 Phone (941) 955-6333 bergertime@verizon.net
 Surveying & Mapping Business Authorization #B7649

SHEET 1 OF 2
 REV.
 DATE: 3-13-2018
 JOB # 2016100
 DWG # B-16100.R
 DRAWN BY: JBA

LOT AREA=13,580 SQ.

LOT COVERAGE CALCULATIONS (30% Maximum)			
	IN SQUARE FEET		
	EXISTING	PER PLAN	AS-BUILT
1.0 NON-POOL/SPA AREAS			
HOUSE (from exterior walls/columns)		2,677.5	2,677.5
GARAGE/CARPORT (not under house)		0	0
ROOF EAVES OVERHANG (exceeding 3' in depth or over useable areas)		99.9	99.9
FRONT ENTRY & FRONT STAIRS (roofed and unroofed)		0	0
REAR ENTRY & REAR STAIRS (roofed and unroofed)		63.9	63.9
ROOFED PORCH, LANAI AND/OR CAGED ROOM, SCREENED ROOM		291.0	291.0
RAISED DECK OR TERRACE (>6" above finished grade)		36.7	36.7
ELEVATED MECHANICAL EQUIPMENT PAD (i.e. A/C, pool)		53.8	53.8
SHED OR GAZEBO		0	0
OTHER BUILDING/STRUCTURES/IMPROVEMENTS (>6" above finished grade)		16.9	16.9
1.1 TOTAL NON-POOL/SPA AREAS		3,239.7	3,239.7
2.0 ELEVATED/CAGED POOL/SPA AREAS (INCL. STAIRS)		0	0
3.0 SUBTOTAL LOT COVERAGE SQUARE FOOTAGE (LINES 1.1 + 2.0)		3,239.7	3,239.7
3.1 TOTAL LOT COVERAGE SQUARE FOOTAGE (sum of "existing", "this permit", and "by others" in line 3.0)		3,239.7 Sq. Ft.	3,239.7 Sq. Ft.
4.0 AS-BUILT TOTAL LOT COVERAGE PERCENTAGE		3239.7 Sq. Ft. (line 3.1) / Lot Size =	23.86 %

NON-OPEN SPACE CALCULATIONS (50% Maximum)			
	IN SQUARE FEET		
	EXISTING	THIS PERMIT	AS-BUILT
5.0 AT-GRADE IMPROVEMENTS			
DRIVEWAY/PARKING AREAS (as per site plan) (all surface types)		1008.9	1008.9
DESIGNATED WALKWAYS/SIDEWALKS (as per site plan) (all surface types)		0	0
IMPERMEABLE PATIOS, SLABS, ETC.		0	0
IMPERMEABLE POOL DECK (at-grade)		916.6	916.6
POOL/SPA SHELL (at grade)		269	269
MECHANICAL EQUIPMENT PADS (i.e. A/C, pool) (at-grade)		0	0
OTHER IMPERVIOUS SURFACE (at-grade)-STEPS TO DOCK		0	0
6.0 TOTAL AT-GRADE SQUARE FOOTAGE (sum of "existing", "this permit", and "by others" in 5.0)		2194.5 Sq. Ft.	2194.5 Sq. Ft.
7.0 TOTAL LOT COVERAGE & NON-OPEN SPACE SQUARE FOOTAGE (lines 3.1 + 6.0)		5,434.2 Sq. Ft.	5,434.2 Sq. Ft.
8.0 TOTAL LOT COVERAGE & NON-OPEN SPACE PERCENTAGE		5,434.2 Sq. Ft. (line 7.0) / Lot Size =	40.02%

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TOWN OF LONGBOAT KEY
Planning, Zoning & Building

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BOUNDARY SURVEY
LOTS 21 & 22, BLOCK B,
LESS THE NORTHEASTERLY 10 FEET,
COQUINA BEACH,
PLAT BOOK 1, PAGE 203, SARASOTA COUNTY,
TOWN OF LONGBOAT KEY, FLORIDA

JIM AMBERGER
LAND SURVEYING, LLC

1055 South Tamiami Trail, Suite 110-B
Sarasota, FL 34236
Phone (941) 955-6333 bergertime@verizon.net
Surveying & Mapping Business Authorization #LB7649

SHEET 2 OF 2
REV.

DATE: 3-13-2018
JOB # 2016100
DWG# B-16100.R
DRAWN BY: JBA



ICC
EVALUATION
SERVICE

In Cooperation with



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

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

ESR-2074

Reissued 02/2019

This report is subject to renewal 02/2021.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

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**

FLOOD VENT SEALING KIT #1540-526



"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 2019

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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:

SMART VENT PRODUCTS, INC.

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
FLOOD VENT SEALING KIT #1540-526

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2018 *International Energy Conservation Code*® (IECC)
- 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.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVENT® and FloodVENT®:

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.

4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT[®] Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 l/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on 12.58 lineal feet (3.8 lineal meters) contained by the Flood Vent Sealing Kit.

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

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised October 2017).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

7.0 IDENTIFICATION

- 7.1 The Smart VENT[®] models and the Flood Vent Sealing Kit 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).
- 7.2 The report holder's contact information is the following:

SMART VENT PRODUCTS, INC.
 430 ANDBRO DRIVE, UNIT 1
 PITMAN, NEW JERSEY 08071
 (877) 441-8368
www.smartvent.com
info@smartvent.com

TABLE 1—MODEL SIZES

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

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

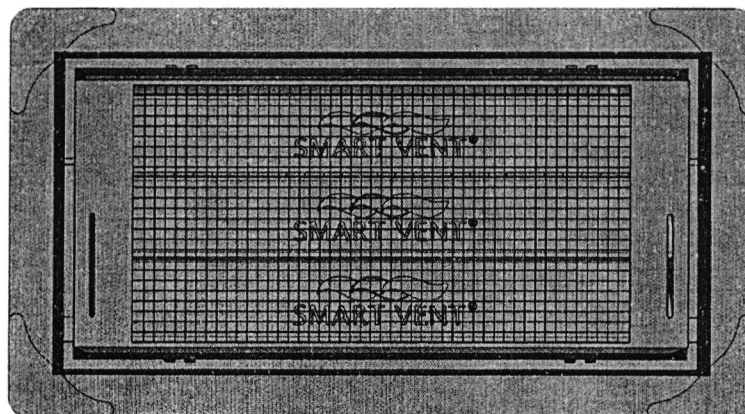


FIGURE 1—SMART VENT: MODEL 1540-510

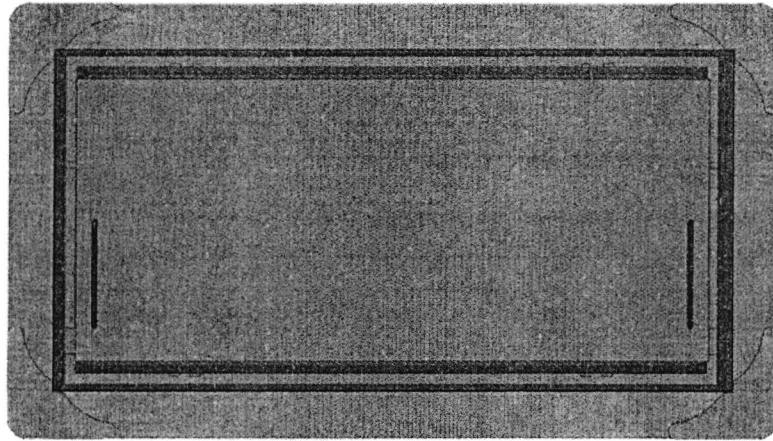


FIGURE 2—SMART VENT MODEL 1540-520

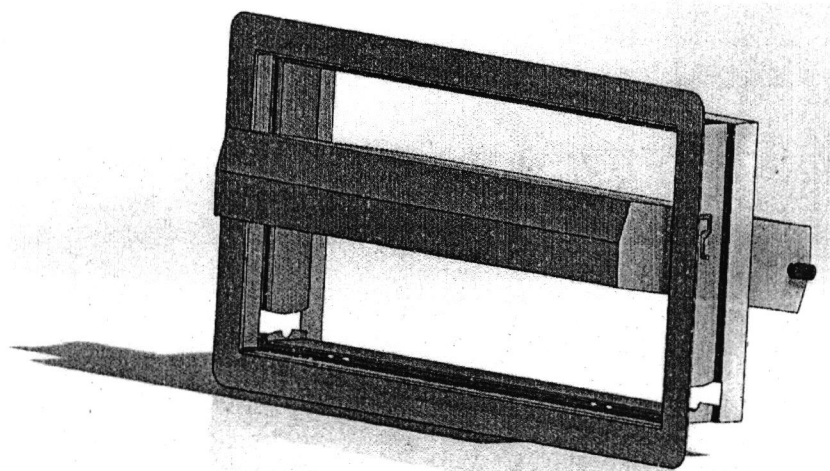


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

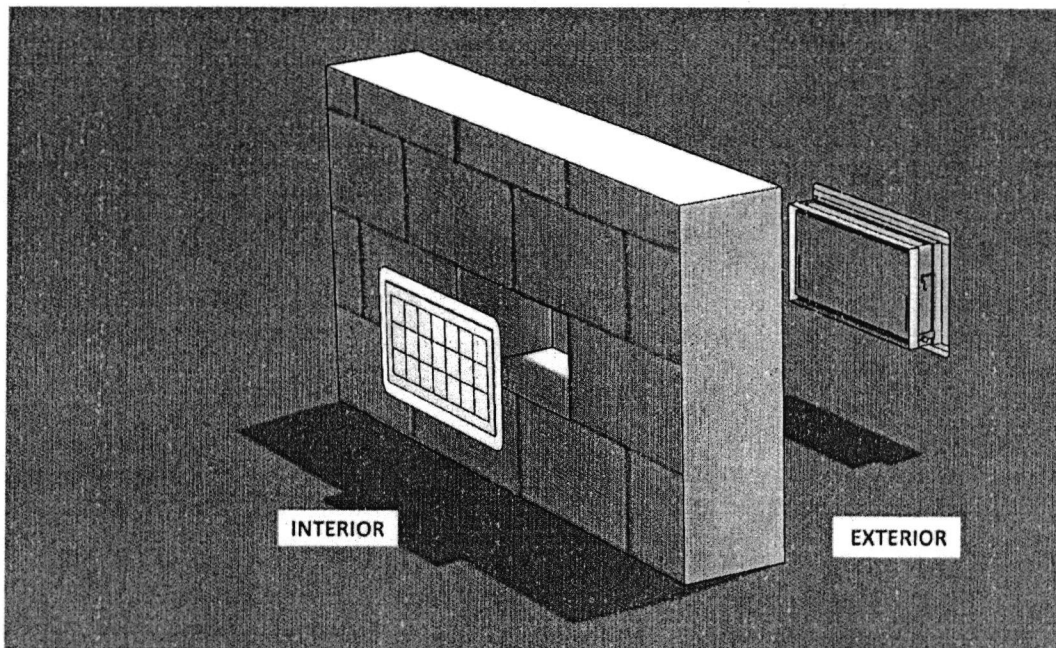


FIGURE 4—FLOOD VENT SEALING KIT

ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

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DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

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
FLOOD VENT SEALING KIT #1540-526

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 evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

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 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code®.

This supplement expires concurrently with the master report, reissued February 2019.

ICC-ES Evaluation Report

ESR-2074 FBC Supplement

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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:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

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 *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *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 *Florida Building Code—Building* and the *Florida Building Code—Residential*.

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 2019.