

## 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 Warren Rogers and Courtney Rogers				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 Gulf Blvd.				Company NAIC Number:	
City Belleair Beach		State Florida		ZIP Code 33786	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot A, Block 16, Belleair Beach Unit D (Parcel ID #31-29-15-06534-016-0010)					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>					
A5. Latitude/Longitude: Lat. <u>27°55'16.3" N</u> Long. <u>82°50'36.5" 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>7</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>1197.84</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>8</u>					
c) Total net area of flood openings in A8.b <u>1600.00</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>0.00</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 City of Belleair Beach 125089			B2. County Name Pinellas		B3. State Florida
B4. Map/Panel Number 12103C0112	B5. Suffix H	B6. FIRM Index Date 08-24-2021	B7. FIRM Panel Effective/ Revised Date 08-24-2021	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 9.0'
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)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

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

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 Gulf Blvd.			Policy Number:
City Belleair Beach	State Florida	ZIP Code 33786	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: "HALL C" PID AG0554 Vertical Datum: NAVD 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.

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	7.4	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
b) Top of the next higher floor	19.4	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	<input type="checkbox"/> feet	<input type="checkbox"/> meters
d) Attached garage (top of slab)	N/A	<input 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)	11.1	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	5.6	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	7.3	<input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5.6	<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

Dennis J. Eyre

License Number

LS2865

Title

Professional Surveyor and Mapper

Company Name

Geodata Services, Inc.

Address

1166 Kapp Drive

City

Clearwater

State

Florida

ZIP Code

33765

Signature

Dennis J Eyre PLS 2865

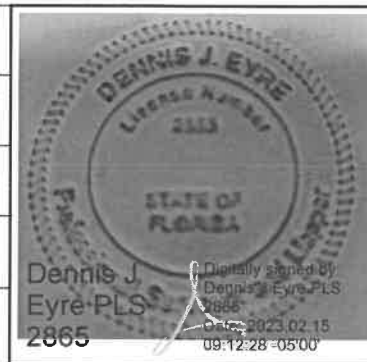
Date

02-15-2023

Telephone

(727) 447-1763

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)

A5. Determined with handheld GPS device utilizing NAD 1983.

A7. Main living area of building constructed with full story foundation walls. 2nd floor porches, with roofing, are on support columns.

A8.a) Ground floor enclosure. A8.c) Rated value all engineered flood vents. A8.d) (8) "Smart Vents" Model #1540-520 (see attachment).

B9. Rounded whole foot value from FIRM.

C2.a) Ground floor enclosure (no living area). C2.b) 2nd floor (Lowest living floor). C2.e) Air conditioners at rear of building.

Additional Elevations: Generator = 11.2' rear of building, Water heater = 14.1' rear of building, Electric meter = 23.0' left side building.

**ELEVATION CERTIFICATE**OMB No. 1660-0008  
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Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 Gulf Blvd.			Policy Number:	
City Belleair Beach	State Florida	ZIP Code 33786	Company NAIC Number	
<b>SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)</b>				
<p>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.</p> <p>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).</p> <p style="margin-left: 20px;">a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.</p> <p style="margin-left: 20px;">b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the LAG.</p> <p>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 _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.</p> <p>E3. Attached garage (top of slab) is _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.</p> <p>E4. Top of platform of machinery and/or equipment servicing the building is _____ <input type="checkbox"/> feet <input type="checkbox"/> meters <input type="checkbox"/> above or <input type="checkbox"/> below the HAG.</p> <p>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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown. The local official must certify this information in Section G.</p>				
<b>SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION</b>				
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				
<input type="checkbox"/> Check here if attachments.				

# ELEVATION CERTIFICATE

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

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 Gulf Blvd.			Policy Number:	
City Belleair Beach	State Florida	ZIP Code 33786	Company NAIC Number	
<b>SECTION G – COMMUNITY INFORMATION (OPTIONAL)</b>				
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. <input type="checkbox"/> 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. <input type="checkbox"/> 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. <input type="checkbox"/> 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: <input type="checkbox"/> New Construction <input type="checkbox"/> Substantial Improvement				
G8. Elevation of as-built lowest floor (including basement) of the building: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
G9. BFE or (in Zone AO) depth of flooding at the building site: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
G10. Community's design flood elevation: _____ <input type="checkbox"/> feet <input type="checkbox"/> meters Datum _____				
Local Official's Name		Title		
Community Name		Telephone		
Signature		Date		
Comments (including type of equipment and location, per C2(e), if applicable)				
<input type="checkbox"/> Check here if attachments.				

# BUILDING PHOTOGRAPHS

## ELEVATION CERTIFICATE

See Instructions for Item A6.

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.  
1501 Gulf Blvd.

Policy Number:

City  
Belleair Beach

State  
Florida

ZIP Code  
33786

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.



Photo One

Photo One Caption Front View 02-15-2023

Clear Photo One



Photo Two

Photo Two Caption Rear View 02-15-2023

Clear Photo Two

# ELEVATION CERTIFICATE

## BUILDING PHOTOGRAPHS

Continuation Page

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.  
1501 Gulf Blvd.

Policy Number:

City  
Belleair Beach

State  
Florida

ZIP Code  
33786

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 Right Side View 02-15-2023

Clear Photo Three

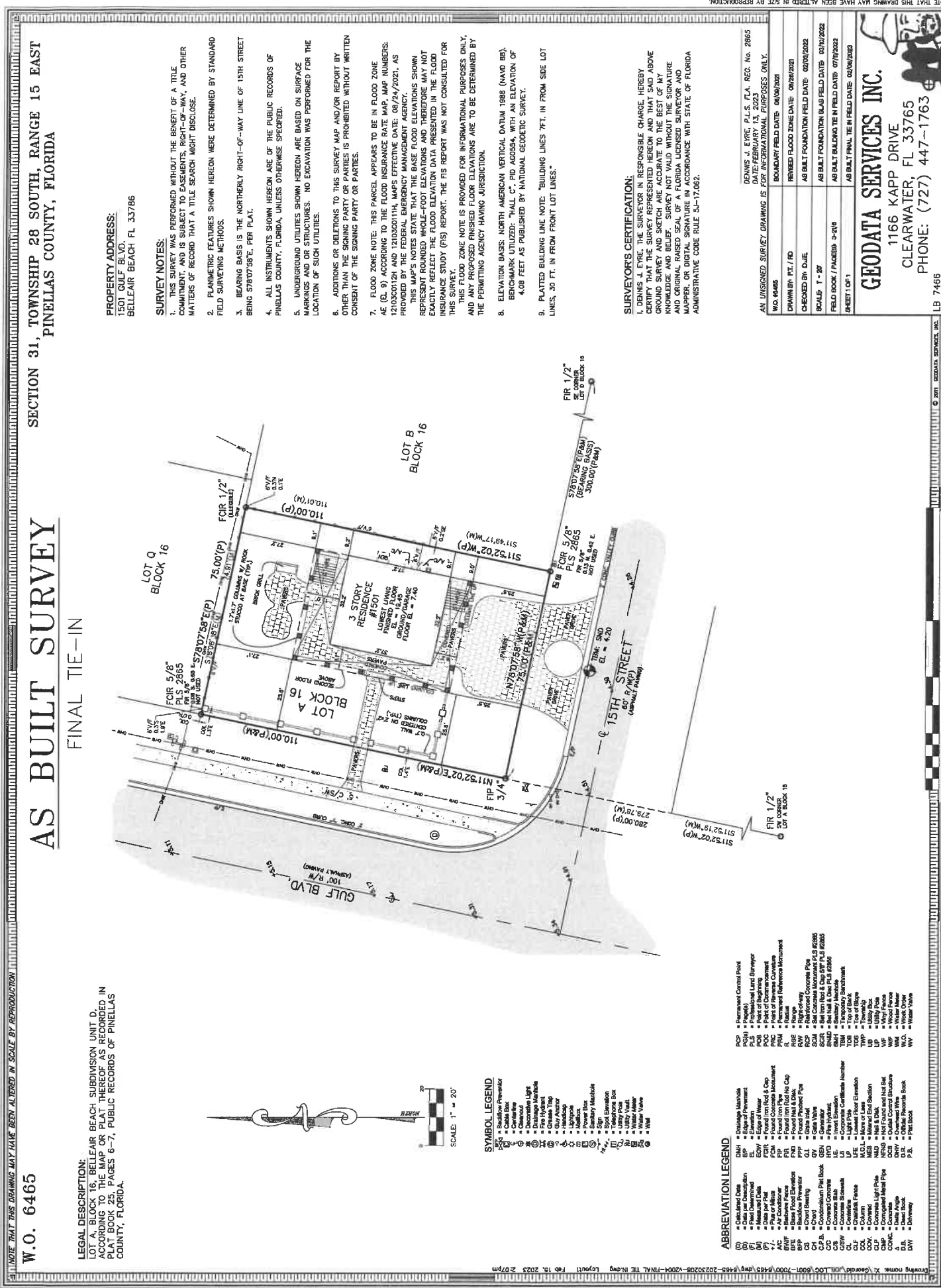


Photo Four

Photo Four Caption Left Side View 02-15-2023

Clear Photo Four





W.O. 6465

LEGAL DESCRIPTION:  
LOT A, BLOCK 16, BELLEAIR BEACH SUBDIVISION UNIT D,  
ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN  
PLAT BOOK 25, PAGES 6-7, PUBLIC RECORDS OF PINELLAS  
COUNTY, FLORIDA.

# AS BUILT SURVEY

FINAL TIE-IN

SECTION 31, TOWNSHIP 28 SOUTH, RANGE 15 EAST  
PINELLAS COUNTY, FLORIDA

PROPERTY ADDRESS:  
1501 GULF BLVD.  
BELLEAIR BEACH FL 33786

## SURVEY NOTES:

1. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT, AND IS SUBJECT TO EASEMENTS, RIGHT-OF-WAY, AND OTHER MATTERS OF RECORD THAT A TITLE SEARCH MIGHT DISCLOSE.
2. PLANNING FEATURES SHOWN HEREON WERE DETERMINED BY STANDARD FIELD SURVEYING METHODS.
3. BEARING BASIS IS THE NORTHERLY RIGHT-OF-WAY LINE OF 15TH STREET BEING S78°07'58"E, PER PLAT.
4. ALL INSTRUMENTS SHOWN HEREON ARE OF THE PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA, UNLESS OTHERWISE SPECIFIED.
5. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON SURFACE WORKING DRAWINGS AND SURVEY RECORDS. NO EXCAVATION WAS PERFORMED FOR THE LOCATION OF SUCH UTILITIES.
6. ADDITIONS OR DELETIONS TO THIS SURVEY MAP AND/OR REPORT BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
7. FLOOD ZONE NOTE: THIS PARCEL APPEARS TO BE IN FLOOD ZONE AE (EL. 9) ACCORDING TO THE FLOOD INSURANCE RATE MAP, MAP NUMBERS: 121030012H AND 121030011H, MAPS EFFECTIVE DATE: 08/24/2021, AS PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. MAP NOTES STATE THAT THE BASE FLOOD ELEVATIONS SHOWN REPRESENTED FLOOD ELEVATIONS BASED ON A 1% ANNUAL CHANCE FLOOD. THEREFORE ANY NOT EXACTLY REFLECT THE FLOOD ELEVATION DATA PRESENTED IN THE FLOOD INSURANCE STUDY (FIS) REPORT. THE FIS REPORT WAS NOT CONSULTED FOR THIS SURVEY.
8. THIS FLOOD ZONE NOTE IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY, AND ANY PROPOSED FINISHED FLOOR ELEVATIONS ARE TO BE DETERMINED BY THE PERMITTING AGENCY HAVING JURISDICTION.
9. PLATTED BUILDING LINE NOTE: "BUILDING LINES 7FT. IN FROM SIDE LOT LINES, 30 FT. IN FROM FRONT LOT LINES."

## SURVEYOR'S CERTIFICATION:

I, DENNIS J. EYRE, THE SURVEYOR IN RESPONSIBLE CHARGE, HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON AND THAT SAID ABOVE GROUND SURVEY AND SKETCH ARE ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY NOT VALID WITHOUT THE SIGNATURE OF THE SURVEYOR, OR THE SIGNATURE OF A LICENSED SURVEYOR AND A MAPPER, OR DIGITAL SIGNATURE IN ACCORDANCE WITH STATE OF FLORIDA ADMINISTRATIVE CODE RULE 54-17.002.

AN UNISSUED SURVEY DRAWING IS FOR INFORMATIONAL PURPOSES ONLY.	
DATE: FEBRUARY 13, 2023	DENNIS J. EYRE, P.L.S., F.L.A. REG. NO. 2865
BOUNDARY FIELD DATE: 06/06/2021	W.O. 6465
REVIEWED FLOOD ZONE DATE: 06/28/2021	DRAWN BY: JT, RD
AS BUILT FOUNDATION FIELD DATE: 02/02/2022	CHECKED BY: DUE
AS BUILT FOUNDATION BLAS FIELD DATE: 02/02/2022	SCALES: 1" = 30'
AS BUILT BUILDING TIE IN FIELD DATE: 07/10/2022	FIELD BOOK / PAGES: 3-210
AS BUILT FINAL TIE IN FIELD DATE: 02/06/2023	SHEET 1 OF 1

**GEODATA SERVICES INC.**  
1166 KAPP DRIVE  
CLEARWATER, FL 33765  
PHONE: (727) 447-1763



*Most Widely Accepted and Trusted*

**ESR-2074**

Reissued 02/2021

Revised 04/2021

This report is subject to renewal 02/2023.

# ICC-ES Evaluation Report

ICC-ES | (800) 423-6587 | (562) 699-0543 | [www.icc-es.org](http://www.icc-es.org)

**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 2021

Revised April 2021

This report is subject to renewal February 2023.

[www.icc-es.org](http://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:**

**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:**

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code®* (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)
- 2021, 2018 *International Energy Conservation Code®* (IECC)
- 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® 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 mm<sup>2</sup>) 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 mm<sup>2</sup>) of net free area to supply natural ventilation. Other FVs described 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 m<sup>2</sup>) 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 m<sup>2</sup>) 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 February 2021).
- 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 described 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](http://www.smartvent.com)  
[info@smartvent.com](mailto:info@smartvent.com)

TABLE 1—MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	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>

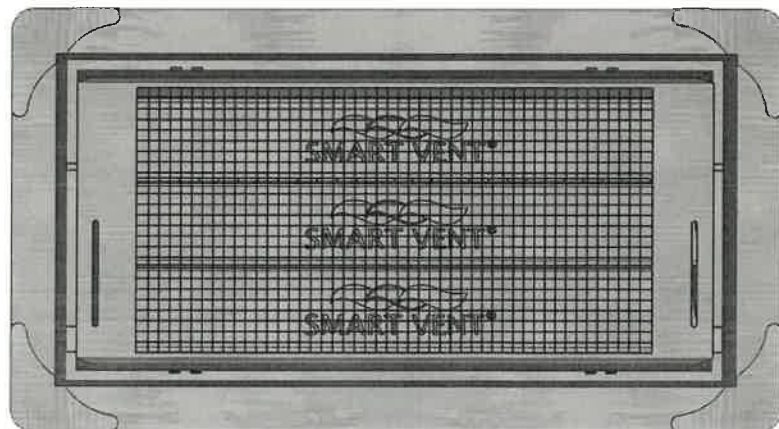


FIGURE 1—SMART VENT: MODEL 1540-510

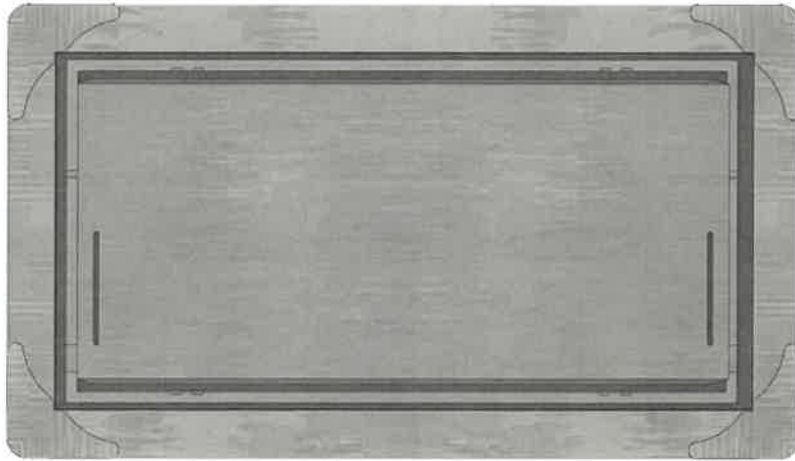


FIGURE 2—SMART VENT MODEL 1540-520

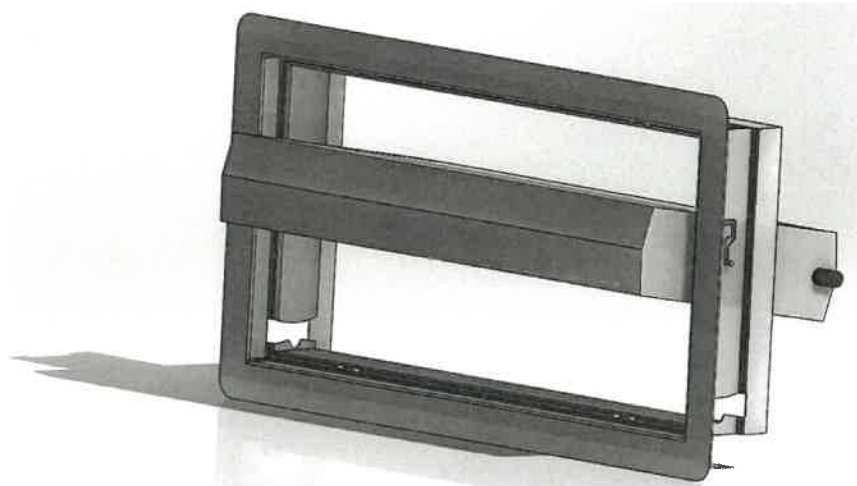


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

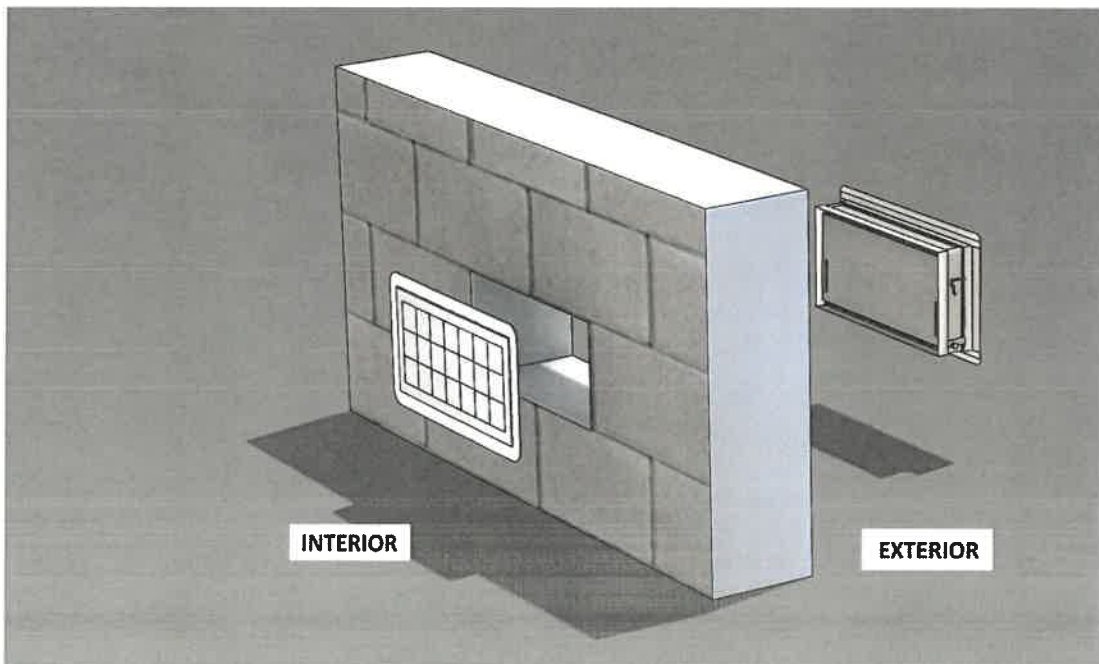


FIGURE 4—FLOOD VENT SEALING KIT

# ICC-ES Evaluation Report

# ESR-2074 CBC and CRC Supplement

Reissued February 2021

Revised April 2021

*This report is subject to renewal February 2023.*

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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 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

### Applicable code editions:

- 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 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 evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

#### 2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

#### 2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

### 2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the 2019 CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued February 2021 and revised April 2021.



# ICC-ES Evaluation Report

# ESR-2074 FBC Supplement

Reissued February 2021

Revised April 2021

This report is subject to renewal February 2023.

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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 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, described in ICC-ES evaluation report ESR-2074, have also been evaluated for compliance with the codes noted below.

### Applicable code editions:

- 2020 *Florida Building Code—Building*
- 2020 *Florida Building Code—Residential*

## 2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the *Florida Building Code-Residential*, provided the design requirements are determined in accordance with the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-2074 for 2018 *International Building Code®* meet the requirements of the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable.

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 61G20-3, 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 evaluation report, reissued February 2021 and revised April 2021.



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**Product Approval**  
USER: Public User

[Product Approval Menu](#) > **Application Detail**

OFFICE OF THE  
SECRETARY

FL #

Application Type

Code Version

Application Status

FL5822-R8

Affirmation

2020

Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived



Product Manufacturer

Address/Phone/Email

Smart Vent Products, Inc.

430 Andbro Dr Unit 1

Pitman, NJ 08071

(877) 441-8368

info@smartvent.com

Authorized Signature

Michael Graham

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Technical Representative

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info@smartvent.com

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Structural Components

Products Introduced as a Result of New Technology

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Hermes F. Norero P.E.

Florida License

PE-73778

Quality Assurance Entity

Architectural Testing, Inc., an Intertek Company

Quality Assurance Contract Expiration Date

12/31/2023

Validated By

Locke Bowden P.E.

☐ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL5822 R8 COI Smart Vent COI SS 2017-08-18\\_.pdf](#)

Referenced Standard and Year (of Standard)

Equivalence of Product Standards  
Certified By

Sections from the Code

1612.5(1)(1.2)

1708.2

I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the



Documentation from approved Evaluation or Validation Entity ☐ Yes ☐ No ☐ N/A[FL5822 R8 COC SA5822 SS 2020-12-07.pdf](#)

Product Approval Method

Method 2 Option B

Date Submitted

12/16/2020

Date Validated

12/16/2020

Date Pending FBC Approval

Date Approved

12/28/2020

**Summary of Products**

FL #	Model, Number or Name	Description
5822.1	SmartVent Model #1540-510	Dual Function Flood and Ventilation Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +100/-100 <b>Other:</b> One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-510 SS 2017-08-23.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5022 SS 2018-06-20.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.2	SmartVent Model #1540-511	Dual Function Flood and Ventilation Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +100/-100 <b>Other:</b> One vent may be used for up to 400 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-511 SS 2017-02-28.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5022 SS 2018-06-20.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.3	SmartVent Model #1540-520	Insulated Flood Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +100/-100 <b>Other:</b> One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-520 SS 2017-08-23.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5022 SS 2018-06-20.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.4	SmartVent Model #1540-521	Insulated Flood Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +100/-100 <b>Other:</b> One vent may be used for up to 400 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-521 SS 2017-02-28.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5022 SS 2018-06-20.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.5	SmartVent Model #1540-524	16" Garage Door Flood Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> One vent may be used for up to 200 sq. ft. of interior space (minimum 2). See Installation Instructions for allowable pressures per door construction.		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-524 SS 2018-08-17.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5892 SS 2018-08-17.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.6	SmartVent Model #1540-570	Wood Wall Insulated Flood Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-570 SS 2017-02-28.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778

<b>Impact Resistant:</b> N/A <b>Design Pressure:</b> +100/-100 <b>Other:</b> One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5022 SS 2018-06-20.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes
5822.7	SmartVent Model #1540-574	14.5" Garage Door Flood Vent
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> N/A <b>Design Pressure:</b> N/A <b>Other:</b> One vent may be used for up to 200 sq. ft. of interior space (minimum 2). See Installation Instructions for allowable pressures per door construction.		<b>Installation Instructions</b> <a href="#">FL5822 R8 II 1540-574 SS 2018-08-17.pdf</a> Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL5822 R8 AE PER5892 SS 2018-08-17.pdf</a> <a href="#">FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes

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