

# 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 HOGAN LEGACY ASSETS 7, LLC					Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 656 HALYARD LANE					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.) PT. LOT 2, BLOCK A, COUNTRY CLUB SHORES, UNIT 4 PID#0009160038						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u>						
A5. Latitude/Longitude: Lat. <u>27d"N</u> Long. <u>82d"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>1B</u>						
A8. For a building with a crawlspace or enclosure(s):						
a) Square footage of crawlspace or enclosure(s) <u>0.00</u> sq ft						
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>0</u>						
c) Total net area of flood openings in A8.b <u>0.00</u> sq in						
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
A9. For a building with an attached garage:						
a) Square footage of attached garage <u>598.00</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>800.00</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 12115C0126	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(s) (Zone AO, use Base Flood Depth) 10	
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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JUL 29 2021

TOWN OF LONGBOAT KEY

Planning, Zoning & Building

# 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. 656 HALYARD LANE			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: NGS DATAPOINT #A715 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)   | <u>11.0</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>23.0</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)   | <u>N/A</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>6.6</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | <u>11.0</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>5.0</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)   | <u>6.0</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>4.6</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 James B Amberger	Digitally signed by James B Amberger Date: 2021.07.27 16:34:05 -04'00'	Date 07-08-2021	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: AIR CONDITIONING COMPRESSOR LOCATED ON SOUTHWESTERLY SIDE OF RESIDENCE

C2a/c2f: THE DIFFERENCE BETWEEN THESE TWO ELEVATIONS IS DUE TO THIS BEING BACKFILLED STEMWALL CONSTRUCTION.

A9(a/d): SMART VENT MODEL 1540-520. THESE VENTS ARE RATED TO PROVIDE SUFFICIENT HYDROSTATIC PRESSURE FOR 200 SQUARE FEET EACH-NOT YET INSTALLED.

# 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. 656 HALYARD LANE			Policy Number:
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
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Signature	Date	Telephone
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Comments

Check here if attachments.







# BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

## ELEVATION CERTIFICATE

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
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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.



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  
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. 656 HALYARD LANE			Policy Number:
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



FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**

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**Product Approval**  
 USER: Public User

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

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FL #	FL5822-R7
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
Product Manufacturer	Smart Vent Products, Inc.
Address/Phone/Email	430 Andbro Dr Unit 1 Pitman, NJ 08071 (877) 441-8368 info@smartvent.com
Authorized Signature	Michael Graham info@smartvent.com
Technical Representative	Michael Graham
Address/Phone/Email	430 Andbro Dr Unit 1 Pitman, NJ 08071 (877) 441-8368 info@smartvent.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Structural Components
Subcategory	Products Introduced as a Result of New Technology
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> 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	12/31/2020
Validated By	Locke Bowden P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received
Certificate of Independence	<a href="#">FL5822_R7_COI_Smart_Vent_COI_SS_2017-08-18_.pdf</a>
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1612.5(1)(1.2) 1708.2





Product Approval Method

Method 2 Option B

Date Submitted

08/17/2018

Date Validated

08/17/2018

Date Pending FBC Approval

08/23/2018

Date Approved

10/08/2018

**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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +100/-100 Other: One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822_R7_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_R7_AE_PER5022_SS_2018-06-20.pdf</a> <a href="#">FL5822_R7_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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +100/-100 Other: One vent may be used for up to 400 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822_R7_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_R7_AE_PER5022_SS_2018-06-20.pdf</a> <a href="#">FL5822_R7_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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +100/-100 Other: One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822_R7_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_R7_AE_PER5022_SS_2018-06-20.pdf</a> <a href="#">FL5822_R7_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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +100/-100 Other: One vent may be used for up to 400 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822_R7_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_R7_AE_PER5022_SS_2018-06-20.pdf</a> <a href="#">FL5822_R7_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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: 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_R7_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_R7_AE_PER5892_SS_2018-08-17.pdf</a> <a href="#">FL5822_R7_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> Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +100/-100 Other: One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		<b>Installation Instructions</b> <a href="#">FL5822_R7_II_1540-570_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_R7_AE_PER5022_SS_2018-06-20.pdf</a> <a href="#">FL5822_R7_AE_SmartVent - Impact Requirements SS 2017-</a>



		<a href="#">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 R7 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 R7 AE PER5892 SS 2018-08-17.pdf</a> <a href="#">FL5822 R7 AE SmartVent - Impact Requirements SS 2017-08-23.pdf</a> Created by Independent Third Party: Yes

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# BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

398 East Dania Beach Blvd.

Suite 338

Dania Beach, FL 33004

954.399.8478 PH

954.744.4738 FX

contact@buildingdrops.com

August 18, 2017

**TO:** Mr. Mike Graham  
President  
Smart Vent Products, Inc.  
430 Andbro Dr. Unit 1  
Pitman, NJ 08071

**FROM:** Hermes Norero, P.E.  
Building Drops, Inc.

**RE:**

**PRODUCT NAME:** FloodVent – Impact Requirements

RECEIVED  
JUL 29 2021  
TOWN OF LONGBOAT KEY  
Planning, Zoning & Building

Dear Mr. Graham,

The purpose of this letter is to evaluate the impact (wind-borne debris) requirements for your FloodVENT product, according to the 6<sup>th</sup> Edition Florida Building Code (FBC), 2015 International Building Code (IBC), 2015 International Residential Code (IRC), and ASCE 7 engineering standards.

According to the FBC Section 1626.1(c), all parts of the building envelope protection shall meet impact test criteria except for vents in a garage with four or fewer cars. The size of the vent is not to exceed the minimum required design area by more than 25%.

The typical FloodVENT opening size, as indicated by the manufacturer, is 15.25" x 5", or 0.53 square feet (sf). Typically two vents are installed per wall, which provides a total net open area of 1.06 sf per installation. The total net open area provided by the vents is regarded as insignificant such that the openings do not compromise the enclosure category of the structure.

An enclosed building is one defined as not partially enclosed and not open. An open building is defined as a building with each wall being at least 80% open. A garage with flood vents does not fall within the definition of an open building.

A partially enclosed building is defined as a building that complies with both of the following:

1. The total area of openings in a wall that receives positive external pressure exceeds the sum of the areas of openings in the balance of the building envelope (walls and roof) by more than 10%.
2. The total area of openings in a wall that receives positive external pressure exceeds 4 sf or 1% of the area of that wall, whichever is smaller, and the percentage of openings in the balance of the building envelope does not exceed 20 percent.

Hermes F. Norero, P.E.

Florida P.E. No. 73778

Page 1 of 2





## BUILDING DROPS

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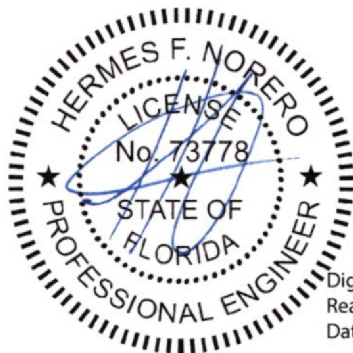
A standard garage wall is approximately 25 feet long by 8 feet tall. This equals an approximate wall area of 200 sf. The typical net open area for two flood vents, as described above, is 1.06 sf, which is less than 4 sf and less than 1% of the wall area. It can also be assumed that 1.06 sf does not exceed more than 10% of the remaining open areas of the garage. Therefore, a garage with flood vents cannot be considered a partially enclosed building.

In my professional opinion, the flood vents manufactured by Smart Vent Products, Inc. do not require additional impact (wind-borne debris) protection devices to be placed over them so that they can continue functioning as flood vents. The vents do not increase the amount of openings in a wall or building such that the building classification changes from enclosed to partially enclosed.

In addition, the 5<sup>th</sup> Edition FBC has specified applicable governing authorities to establish special flood hazard areas as per FEMA specification under 6<sup>th</sup> Edition FBC section 1612.3. This product has been evaluated, dependent to specific site conditions, to meet the minimum requirements of the National Flood Insurance Program (NFIP) flood plain management requirements (44 CFR) with respect to flood openings for enclosed areas for the purpose of equalizing hydrostatic pressure resulting from flooding. The product has been evaluated to conform to design principles noted in Section 2.6.2.2 of ASCE 24 for a maximum rate of rise and fall of 5.0 feet per hour by the ICC-ES under evaluation report ESR-2074. Thus, the product may be used in wall construction to comply with 6<sup>th</sup> Edition FBC Section 1612.5(1)(1.2).

Please feel free to contact me should you have any questions regarding this evaluation.

Best Regards,



Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2017.08.23 19:25:49 -04'00'

Hermes Norero, P.E.  
FL PE No. 73778



# BUILDING DROPS

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Certificate of Authorization: 29578

398 E. Dania Beach Blvd.  
Suite 338  
Dania Beach, FL 33004  
954.399.8478 PH  
954.744.4738 FX  
contact@buildingdrops.com

## Product Evaluation Report

*of*

### Smart Vent Products, Inc.

Insulated Flood Vent Model #1540-520  
Insulated Stacked Flood Vent Model #1540-521  
Dual Function Smart Vent Model #1540-510  
Dual Function Stacked Smart Vent Model #1540-511  
Insulated Wood Wall Flood Vent Model #1540-570

*for*

### Florida Product Approval

FL# FL5822

Report No. 5022

### Current Florida Building Code

Method:	2 – B (Engineering Evaluation)
Category:	Structural Components
Sub – Category:	Products Introduced as a Result of New Technology
Other Sub-Category:	Ventilation
Product:	Automatic Foundation Flood Vents (AFFV)
Material:	Stainless Steel
Product Dimensions:	See Installation Instructions

#### Prepared For:

Smart Vent Products, Inc.  
430 Andbro Drive, Unit 1  
Pitman, NJ 08071

#### Prepared by:

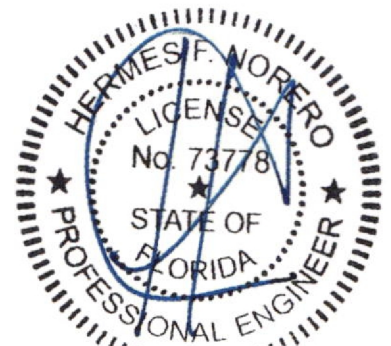
Hermes Norero, P.E.  
Florida Professional Engineer # 73778  
Date: 06/15/2018

#### Contents:

Evaluation Report Pages 1 – 3

Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2018.06.20 07:22:36 -04'00'

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TOWN OF LONGBOAT KEY  
Planning, Zoning & Building



Hermes Norero, P.E.  
Florida No. 73778



# BUILDING DROPS

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Certificate of Authorization: 29578

FL#: FL5822

Date: 06/15/2018

Report No: 5022

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**Manufacturer:** Smart Vent Products, Inc.

**Product Category:** Structural Components

**Product Sub-Category:** Other

**Other Sub-Category:** Ventilation

**Compliance Method:** State Product Approval Method (2)(b)

**Product Name:** Insulated Flood Vent Model #1540-520  
Insulated Stacked Flood Vent Model #1540-521  
Dual Function Smart Vent Model #1540-510  
Dual Function Stacked Smart Vent Model #1540-511  
Insulated Wood Wall Flood Vent Model #1540-570

**Scope:**

This is a Product Evaluation Report issued by Hermes Norero, P.E. (FL # 73778) for **Smart Vent Products, Inc.** based on Rule Method 2b of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Current Florida Building Code.

See Installation Instructions provided by Smart Vent Products, Inc., verified by Hermes Norero, P.E. (FL # 73778) for specific use parameters.

**Limits of Use:**

1. This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of the drawings require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions for size and design pressure limitations.
6. Wall construction shall meet requirements of Section 1612 of the FBC as deemed technically relevant due to site conditions.

Hermes Norero, P.E.  
Florida No. 73778  
Page 2 of 3





# BUILDING DROPS

A Perfect Solution in Every Drop!

Certificate of Authorization: 29578

FL#: **FL5822**

Date: 06/15/2018

Report No: 5022

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**Quality Assurance:**

The manufacturer has demonstrated compliance of ventilation products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc.** (FBC Organization #: QUA 1844)

**Performance Standards:**

The product described herein has been evaluated and tested per:

- ASTM E 330-02
- ASCE 24-14
- TAS 202-94

**Code Compliance:**

The product described herein complies with the current FBC Section 1708.2 and the intent of the current Edition FBC Section 1612.5(1)(1.2).

**Referenced Data:**

1. Product Testing performed by Architectural Testing, Inc. (FBC Organization # TST1558)  
Report #: 01-42966.01, Report Date: 11/15/02  
Report #: 38957.102-122-44, Report Date: 11/16/05  
Report #: 60619.01-122-47, Report Date: 11/16/05  
Report #: 61877.01-122-44, Report Date: 01/06/06  
Report #: 94135.01-109-18, Report Date: 08/31/09  
Signed and Sealed by: Michael D. Stremmel, P.E. FL # 65868
2. Product Testing performed by Blackwater Testing, Inc. (FBC Organization # TST10394)  
Report #: BT-SVP-16-001, Report Date: 01/06/17  
Signed and Sealed by: Constantine Bortes, P.E. FL # 77915
3. Quality Assurance  
**Architectural Testing, Inc.**  
(FBC Organization #: QUA 1844)
4. ICC Evaluation Service  
ESR-2074: Meets requirements of AC364  
Reissued February 2017  
Revised November 2017

**Installation:** Refer to Installation Instructions by Manufacturer for installation requirements.

**Design Pressure:**

Design Pressures

+100/-100 PSF

Hermes Norero, P.E.

Florida No. 73778

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# BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

398 E. Dania Beach. Blvd  
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Dania Beach, FL 33004  
954.399.8478 PH  
954.744.4738 FX  
contact@buildingdrops.com

August 18, 2017

**TO:** Whom It May Concern  
**FROM:** Hermes F. Norero, P.E.  
Registered Florida Professional Engineer #73778

**MANUFACTURER:** Smart Vent Products, Inc.  
430 Andbro Drive, Unit 1  
Pitman, NJ 08071

RECEIVED  
JUL 29 2017  
TOWN OF LONGBOAT KEY  
Planning, Zoning & Building

Dear Sir (Madam),

To the best of my knowledge, the above-mentioned product conforms to the 6<sup>th</sup> Edition of the Florida Building Code.

Please note that I do not have, nor will I acquire, a financial interest in any company manufacturing or distributing the product(s) for which the reports are being issued.

I also do not have, nor will I acquire, any financial interest with the Laboratory that performed the test(s), or with the Engineer witnessing the test(s) and sealing the test report(s).

Respectfully submitted,



Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2017.08.18 18:28:08 -04'00'

Hermes F. Norero, P.E.  
Florida Registered Professional Engineer #73778