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300301  
 OMB No 1660-0008  
 Expiration Date: November 30, 2022

# ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9

*CB20-04408  
 10-25-21  
 PA*

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<br>Taylor Morrison of Florida Inc   |                 |                                   |  | Policy Number             |  |
| A2. Building Street Address (including Apt. Unit, Suite and/or Bldg. No.) or P.O. Route and Box No.<br>2510 Coral Ct  |                 |                                   |  | Company NAIC Number       |  |
| City<br>Indian Rocks Beach  |                 | State<br>FL                       |  | ZIP Code<br>33785         |  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>Lot 9 Walk at Indian Rocks Beach PB 144 (Pgs 23-24) Permit # Per-H-CB20-04408   |                 |                                   |  |                           |  |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential - Unit in Attached Townhome</u>   |                 |                                   |  |                           |  |
| A5. Latitude/Longitude: Lat. <u>N27°54'26.0"</u> Long. <u>W82°50'46.9"</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>702</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>1792</u> sq in   |                 |                                   |  |                           |  |
| d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                 |                                   |  |                           |  |
| A9. For a building with an attached garage:   |                 |                                   |  |                           |  |
| a) Square footage of attached garage <u>N/A</u> sq ft   |                 |                                   |  |                           |  |
| b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>  |                 |                                   |  |                           |  |
| c) Total net area of flood openings in A9 b <u>N/A</u> sq in  |                 |                                   |  |                           |  |
| d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |                 |                                   |  |                           |  |
| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION   |                 |                                   |  |                           |  |
| B1. NFIP Community Name & Community Number<br>City of Indian Rocks Beach 125117C  |                 |                                   | B2. County Name<br>Pinellas County                   |                           | B3. State<br>FL  |
| B4. Map/Panel Number<br>12103C0111  | B5. Suffix<br>G | B6. FIRM Index Date<br>08/18/2009 | B7. FIRM Panel Effective/ Revised Date<br>09/03/2003 | B8. Flood Zone(s)<br>AE   | B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)<br>11.4' |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.<br><input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input checked="" type="checkbox"/> Other/Source: <u>SEE COMMENTS</u> |                 |                                   |  |                           |  |
| 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<br>Designation Date: <u>N/A</u> <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<br>2510 Coral Ct |             |                   | Policy Number                    |
| City<br>Indian Rocks Beach   | State<br>FL | ZIP Code<br>33785 | 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: Box in GI @ NE Corn Lot 4 Elev = 4.01 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

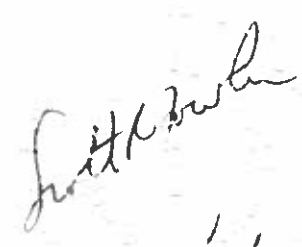

Check the measurement used

- |   |             |  |                                 |
|---|-------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace or enclosure floor)  | <u>6.2</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>16.8</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 type="checkbox"/> feet            | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>N/A</u>  | <input 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>14.9</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>5.4</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>N/A</u>  | <input type="checkbox"/> feet            | <input type="checkbox"/> meters |

## SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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

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

|  |                          |   |
|--|--------------------------|---|
| Certifier's Name<br>Scott R. Fowler  | License Number<br>LS5185 | <br>LS5185 8/14/2021 |
| Title<br>Professional Surveyor and Mapper  |                          |   |
| Company Name<br>Landmark Engineering & Surveying Corp.   |                          |   |
| Address<br>8515 Palm River Road  |                          |   |
| City<br>Tampa  | State<br>FL              |   |
| Signature<br> | Date<br>8-14-2021        | Telephone<br>813-621-7841   |

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)

Not valid without the original signature and seal of a Florida Registered Surveyor and Mapper or Electronic equivalent. Date of Field Work: 08/10/2021. Latitude and Longitude obtained with a hand held GPS device. The equipment referenced in C2e is the air conditioner, located outside the structure, along the left side wall. The total net area of flood openings in A8c is calculated as follows: 3 Smart Vent Insulated Flood Vents (model 1540-520) in the enclosure walls each certified to handle 200 square feet, 3 non-engineered vents in an enclosure wall each measuring 16" x 16.5" and 2 Smart Vent Insulated Flood Vents (model 1540-524) in the enclosure overhead door each certified to handle 200 square feet. Attachment: ICC-ES Elevation Report ESR-2074 Attachment Page 4-6 of "Managing Floodplain Development Through the National Flood Insurance Program" (Unit 4 Using NFIP Studies and Maps), which is the source of the Base Flood Elevation.

# 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.<br>2510 Coral Ct |             |                   | Policy Number:                   |
| City<br>Indian Rocks Beach   | State<br>FL | ZIP Code<br>33785 | 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

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.<br>2510 Coral Ct | Policy Number:                   |
| City<br>Indian Rocks Beach   | State<br>FL                      |
| ZIP Code<br>33785  | 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.

# 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.  
2510 Coral Ct

Policy Number:

City  
Indian Rocks Beach

State  
FL

ZIP Code  
33785

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 Caption

Front View 08/12/2021



Photo Two Caption

Rear View 08/12/2021

# BUILDING PHOTOGRAPHS

## ELEVATION CERTIFICATE

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.<br>2510 Coral Ct |             |                   | Policy Number:                   |
| City<br>Indian Rocks Beach   | State<br>FL | ZIP Code<br>33785 | 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 One Caption

Rear Wall Vent 08/12/2021



Photo Two Caption

Intentionally Left Blank

**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.<br>2510 Coral Ct |             |                   | Policy Number:                   |
| City<br>Indian Rocks Beach   | State<br>FL | ZIP Code<br>33785 | 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.

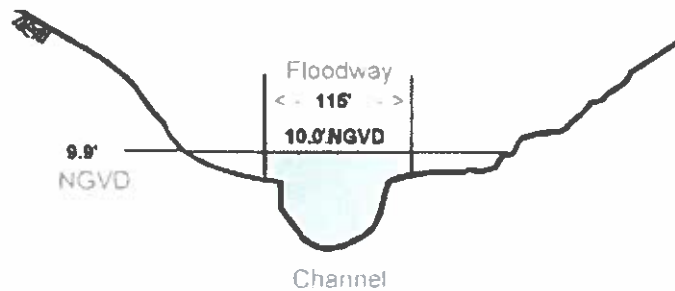


Photo One Caption

Rear Wall Vent 08/12/2021

Photo Two Caption

Intentionally Left Blank



**Figure 4-3: Representation of cross-section A of the Rocky River**

The area of the floodway here is 1,233 square feet. This is the cross sectional area of the floodway below the elevation of the base flood at this location (the shaded area of Figure 4-3). It is used to determine water velocity. The average or mean velocity of the base flood in the floodway is 6.1 feet per second.

Of the last four columns under “Base Flood Water Surface Elevation,” you should be concerned only with the first one, “Regulatory,” which provides the regulatory flood elevation. This is equivalent to the 100-year flood elevation or BFE. The other columns depict the increase in water-surface elevation if the floodplain is encroached upon so that the water-surface elevation is increased no more than 1 foot. This amount of encroachment is used to define the floodway width. Notice that at no cross section is the increase more than 1.0 foot, in accordance with NFIP standards.

## COASTAL AND LAKE ELEVATIONS

**Coastal flood elevations.** Table 4, *Transect Descriptions*, on page 12 in the FIS report for Flood County, shows the stillwater elevations and the maximum wave crest elevations of 100-year flood events along the coast.

Coastal regulatory flood elevations include the increase due to wave height. Therefore, use the BFE from the FIRM, not the stillwater elevations in the table.

The base flood elevations on the FIRM are rounded to the nearest foot, which means that if a base flood elevation was actually 8.3 feet, it would show as 8 feet on the FIRM. To correct for this, the recommended rule of thumb is to add 0.4 foot to the rounded BFE on the FIRM. This makes sure that the regulatory elevation you use will be high enough.

*For the coast, use the base flood elevation from the FIRM (plus 0.4 foot), not the table.*

**Lake flood elevations.** On inland lakes and reservoirs, the FIS generally does not include the effects of waves. For these areas, information on base flood elevations is contained in Section 3.0 of the FIS report, and data is presented in a table titled *Summary of Stillwater Elevations*. Note that in this table the BFE is shown to the nearest one-tenth





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# ICC-ES Evaluation Report

# ESR-2074

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

Reissued 02/2021  
This report is subject to renewal 02/2023.

**DIVISION: 08 00 00—OPENINGS**

**SECTION: 08 95 45— 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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**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 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 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 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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](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 <sup>®</sup>                         | 1540-520     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT <sup>®</sup>                         | 1540-510     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| FloodVENT <sup>®</sup> Overhead Door           | 1540-524     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT <sup>®</sup> Overhead Door           | 1540-514     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| Wood Wall FloodVENT <sup>®</sup>               | 1540-570     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| Wood Wall FloodVENT <sup>®</sup> Overhead Door | 1540-574     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| SmartVENT <sup>®</sup> Stacker                 | 1540-511     | 16" X 16"  | 400                |
| FloodVent <sup>®</sup> Stacker                 | 1540-521     | 16" X 16"  | 400                |

For SI: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

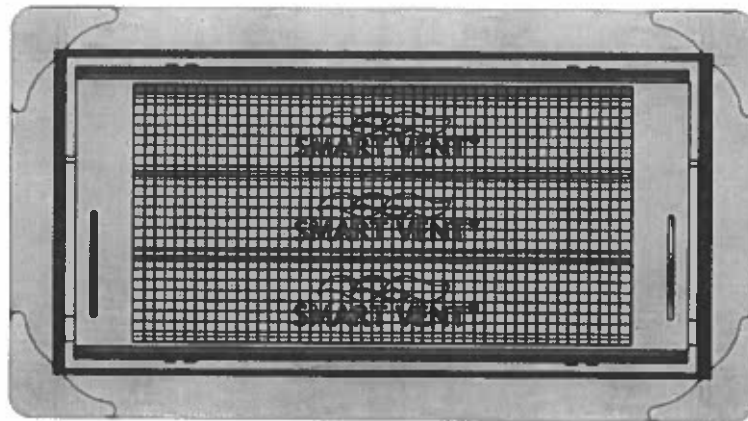


FIGURE 1—SMART VENT: MODEL 1540-510

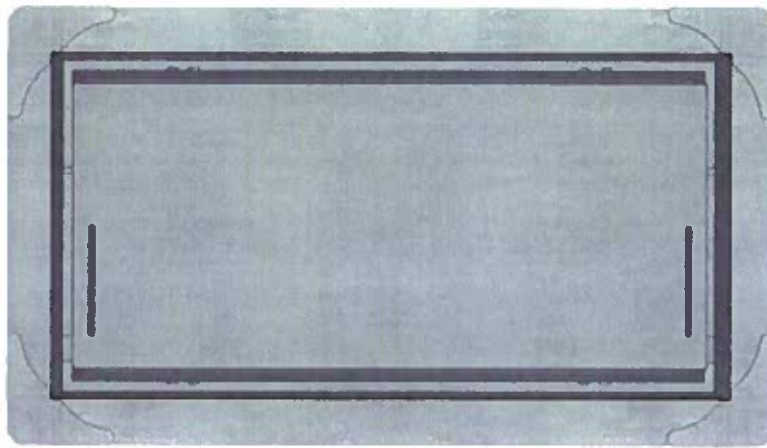


FIGURE 2—SMART VENT MODEL 1540-520

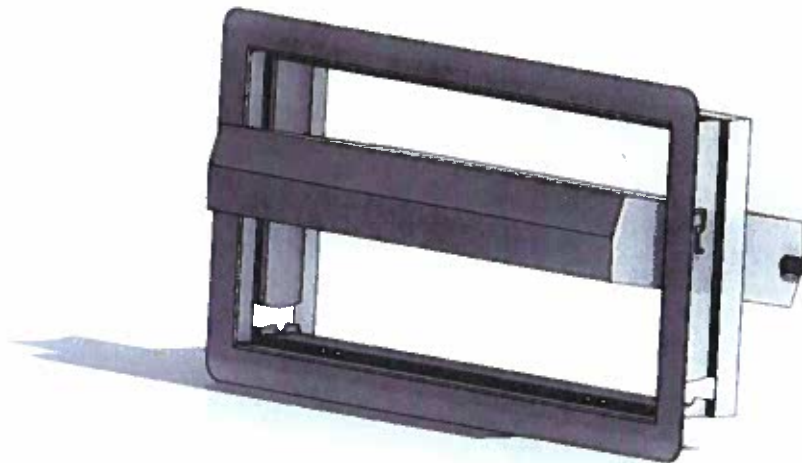


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

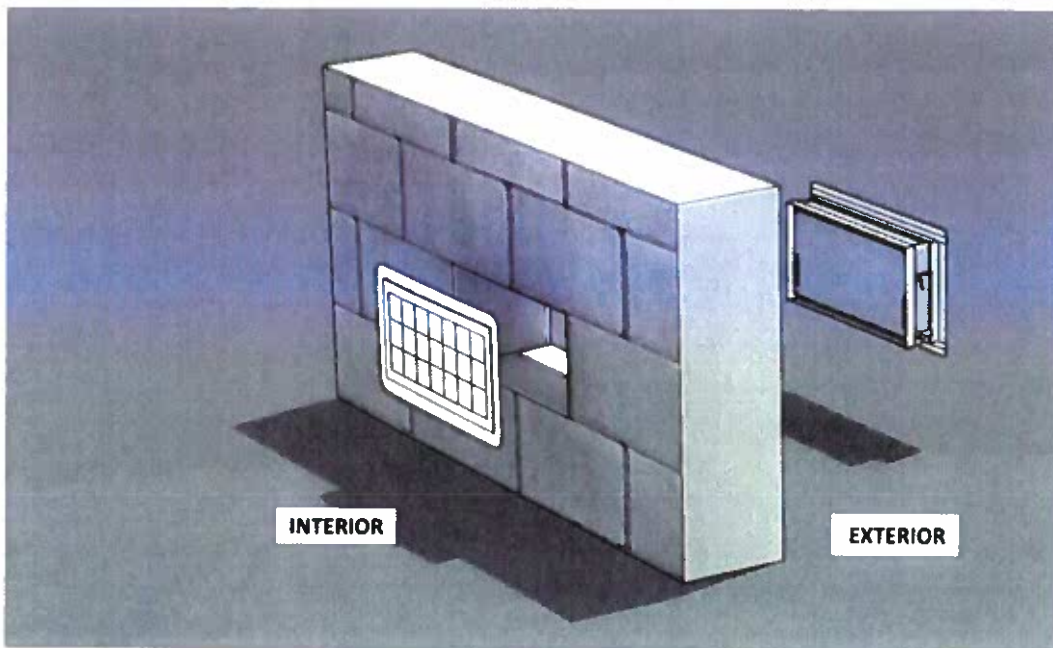


FIGURE 4—FLOOD VENT SEALING KIT

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 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 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 evaluation report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

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

This supplement expires concurrently with the evaluation report, reissued February 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

## 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:

- 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 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 evaluation 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 evaluation report, reissued February 2021.