U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

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 | | | | | |
|---|--------------------------------------|--|--|--|--|
| A1. Building Owner's Name: CERES CONSULTING LLC | Policy Number: | | | | |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 8111 ARLEWOOD CIR Company NAIC Number: | | | | | |
| City: PORT CHARLOTTE State: FL | ZIP Code: <u>33981</u> | | | | |
| A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel NumLOT 7, BLOCK 4973, PID: 412115181006, PORT CHARLOTTE SECTION 93 | nber: | | | | |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): RESIDENTIAL | | | | | |
| A5. Latitude/Longitude: Lat. 26° 54' 41,17" N Long. 82° 12' 00,71" W Horiz. Datum: | NAD 1927 🔀 NAD 1983 🗌 WGS 84 | | | | |
| A6. Attach at least two and when possible four clear color photographs (one for each side) of the bu | uilding (see Form pages 7 and 8). | | | | |
| A7. Building Diagram Number:1B | | | | | |
| A8. For a building with a crawlspace or enclosure(s): | | | | | |
| a) Square footage of crawlspace or enclosure(s): N/A sq. ft. | | | | | |
| b) Is there at least one permanent flood opening on two different sides of each enclosed area? | ☐ Yes ☐ No ☒ N/A | | | | |
| c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot Non-engineered flood openings:N/A Engineered flood openings:N/A | | | | | |
| d) Total net open area of non-engineered flood openings in A8.c: N/A sq. in. | | | | | |
| e) Total rated area of engineered flood openings in A8.c (attach documentation – see Instruction | ons): N/A sq. ft. | | | | |
| f) Sum of A8.d and A8.e rated area (if applicable – see Instructions):N/A sq. ft. | | | | | |
| A9. For a building with an attached garage: | | | | | |
| a) Square footage of attached garage: 579.00 sq. ft. | | | | | |
| b) Is there at least one permanent flood opening on two different sides of the attached garage? Yes No N/A | | | | | |
| c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade: Non-engineered flood openings:0 Engineered flood openings:3 | | | | | |
| d) Total net open area of non-engineered flood openings in A9.c: sq. in. | | | | | |
| e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructions): 600.00 sq. ft. | | | | | |
| f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): sq. ft. | | | | | |
| SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION | | | | | |
| B1.a. NFIP Community Name: Charlotte County Unincorporated B1.b. NFIP Community Name: | munity Identification Number: 120061 | | | | |
| B2. County Name: Charlotte B3. State: FL B4. Map/Panel No.: 1 | 12015C/0212 B5. Suffix: G | | | | |
| B6. FIRM Index Date: 12/15/2022 B7. FIRM Panel Effective/Revised Date: 12/15/202 | 22 | | | | |
| B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use Base Flood Depth): 8.0' | | | | | |
| B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9: ☐ FIS ☐ FIRM ☐ Community Determined ☐ Other: | | | | | |
| B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: | | | | | |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? | | | | | |
| B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? Yes No | | | | | |

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box N | Io.: FOR INSURANCE COMPANY USE | | | | |
|---|--|--|--|--|--|
| 8111 ARLEWOOD CIR | Policy Number: | | | | |
| City: PORT CHARLOTTE State: FL ZIP Code: 33981 | Company NAIC Number: | | | | |
| SECTION C - BUILDING ELEVATION INFORMATION (S | SURVEY REQUIRED) | | | | |
| C1. Building elevations are based on: Construction Drawings* Building Under *A new Elevation Certificate will be required when construction of the building is comp | | | | | |
| C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), A A99. Complete Items C2.a–h below according to the Building Diagram specified in Ite Benchmark Utilized: SGC010 Vertical Datum: NGV | m A7. In Puerto Rico only, enter meters. | | | | |
| Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other: | | | | | |
| Datum used for building elevations must be the same as that used for the BFE. Conversion If Yes, describe the source of the conversion factor in the Section D Comments area. | n factor used? | | | | |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor): | 8.5 Seet measurement used. | | | | |
| b) Top of the next higher floor (see Instructions): | N/A feet meters | | | | |
| c) Bottom of the lowest horizontal structural member (see Instructions): | N/A feet meters | | | | |
| d) Attached garage (top of slab): | 7.2 | | | | |
| e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area): | 10.1 | | | | |
| f) Lowest Adjacent Grade (LAG) next to building: Natural Finished | 5.9 🛛 feet 🗌 meters | | | | |
| g) Highest Adjacent Grade (HAG) next to building: Natural Finished | 6.1 🛛 feet 🗌 meters | | | | |
| Finished LAG at lowest elevation of attached deck or stairs, including structural support: | N/A feet 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 state 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 and describe in the Comments area. | | | | | |
| Certifier's Name: GUSTAVO INTERIAN License Number: PSM 6461 | | | | | |
| Title: PROFESSIONAL SURVEYOR AND MAPPER | | | | | |
| Company Name: LYNX SURVEYORS CORP | | | | | |
| Address: 302 LAUREL ROAD EAST UNIT 291 | | | | | |
| City: LAUREL State: FL ZIP Code: 34272 STATE OF | | | | | |
| Address: 302 LAUREL ROAD EAST UNIT 291 City: LAUREL State: FL ZIP Code: 34272 Telephone: (833) 721-2907 Ext.: Email: contact@lynxsurveyors.com | | | | | |
| Signature: Date: 07/03/ | | | | | |
| Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. | | | | | |

Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachments): Attached ICC-ES Report No.ESR-2074 for Engineered openings manufactured by Smart Vent Products Inc., Model Smart Vent 1540-520, coverage 200 sq. ft. per unit; Benchmark used (SGC010) Elev.=3.966' (NGVD29), Elev= 2.816' (NAVD88); NGVD to NAVD conversion=1.15' per Vertcon, Prior FEMA flood map: 12015C/0212F, eff: 05/05/2003, BFE 8.0' AE NGVD; A5) Determine by GPS RTK NCCS received; C2 e) for Central A/C System, measured on top metalic wall support; C2 f) g) source Final Survey with Drainage Elevations; Crown of Road Elev.=3.80'; -ORDER No: LS231171

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: | FOR INSURANCE COMPANY USE |
|--|---|
| 8111 ARLEWOOD CIR | Policy Number: |
| City: PORT CHARLOTTE State: FL ZIP Code: 33981 | Company NAIC Number: |
| SECTION E – BUILDING MEASUREMENT INFORMATION (SURVEY FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT | • |
| For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. For Items E1–E4, use natural intended to support a Letter of Map Change request, complete Sections A, B, and C. Check the menter meters. | |
| Building measurements are based on: Construction Drawings* Building Under Construction* A new Elevation Certificate will be required when construction of the building is complete. | on* Finished Construction |
| E1. Provide measurements (C.2.a in applicable Building Diagram) for the following and check the a measurement is above or below the natural HAG and the LAG. | ppropriate boxes to show whether the |
| a) Top of bottom floor (including basement, crawlspace, or enclosure) is: | above or below the HAG. |
| b) Top of bottom floor (including basement, crawlspace, or enclosure) is: | above or below the LAG. |
| E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/o next higher floor (C2.b in applicable | |
| Building Diagram) of the building is: E3. Attached garage (top of slab) is: [feet meters | ☐ above or ☐ below the HAG. ☐ above or ☐ below the HAG. |
| E4. Top of platform of machinery and/or equipment | |
| servicing the building is: | 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 ac floodplain management ordinance? | ccordance with the community's ust certify this information in Section G. |
| SECTION F – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESEN | TATIVE) CERTIFICATION |
| The property owner or owner's authorized representative who completes Sections A, B, and E for Z sign here. The statements in Sections A, B, and E are correct to the best of my knowledge | one A (without BFE) or Zone AO must |
| Check here if attachments and describe in the Comments area. Property Owner or Owner's Authorized Representative Name: | |
| Property Owner or Owner's Authorized Representative Name: | |
| Address: State: | ZIP Code: |
| Telephone: Ext.: Email: | 211 0000. |
| | |
| Signature: Date: | <u> </u> |
| Comments: | |
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IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

| Building Street Address (including Apt., Unit, Suite, | and/or Bldg. No. |) or P.O. Route and B | Box No.: | FOR INS | URANCE COMPANY USE |
|---|---------------------|-------------------------|----------------|--------------------------------|------------------------------|
| 8111 ARLEWOOD CIR | | | | Policy Nur | mber: |
| City: PORT CHARLOTTE | _ State:FL_ | ZIP Code: <u>3398</u> | 31 | Company | NAIC Number: |
| SECTION G - COMMUNITY INFORM | NATION (REC | OMMENDED FOR | COMMUN | ITY OFFICIA | AL COMPLETION) |
| The local official who is authorized by law or ordin Section A, B, C, E, G, or H of this Elevation Certi | | | | | rdinance can complete |
| G1. The information in Section C was take engineer, or architect who is authorized elevation data in the Comments area | ed by state law to | | | | |
| G2.a. A local official completed Section E for E5 is completed for a building located | | ited in Zone A (withou | ut a BFE), Z | one AO, or Zo | one AR/AO, or when item |
| G2.b. A local official completed Section H for | or insurance purp | ooses. | | | |
| G3. | he local official c | describes specific cor | rrections to t | the informatio | n in Sections A, B, E and H. |
| G4. | G11) is provided | for community flood | plain manag | ement purpos | ses. |
| G5. Permit Number: | G6. Date | Permit Issued: | | | |
| G7. Date Certificate of Compliance/Occupance | y Issued: | | | | |
| G8. This permit has been issued for: New | v Construction [| Substantial Impro | vement | | |
| G9.a. Elevation of as-built lowest floor (including building: | g basement) of th | he | _ | meters | Datum: |
| G9.b. Elevation of bottom of as-built lowest hori member: | zontal structural | | _ | meters | Datum: |
| G10.a. BFE (or depth in Zone AO) of flooding at | the building site: | | feet | meters | Datum: |
| G10.b. Community's minimum elevation (or depti requirement for the lowest floor or lowest member: | | ural | ☐ feet | ☐ meters | Datum: |
| | ves. attach docu | mentation and descr | _ 🗀 | | |
| G11. Variance issued? Yes No If yes, attach documentation and describe in the Comments area. The local official who provides information in Section G must sign here. I have completed the information in Section G and certify that it is correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Comments area of this section. | | | | ction G and certify that it is | |
| Local Official's Name: | | Title: _ | | | |
| NFIP Community Name: | | | | | |
| | | | | | |
| Address: | | | | | |
| City: | | | | | |
| Signature: | | Date: | | | |
| Comments (including type of equipment and local Sections A, B, D, E, or H): | tion, per C2.e; d | lescription of any atta | achments; aı | nd corrections | to specific information in |
| | | | | | |
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IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: | FOR INSURANCE COMPANY USE | | |
|--|------------------------------|--|--|
| 8111 ARLEWOOD CIR | Policy Number: | | |
| City: PORT CHARLOTTE State: FL ZIP Code: 33981 | Company NAIC Number: | | |
| SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION F (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES | | | |
| The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section. | | | |
| H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the | Lowest Adjacent Grade (LAG): | | |
| a) For Building Diagrams 1A, 1B, 3, and 5–8. Top of bottom floor (include above-grade floors only for buildings with crawlspaces or enclosure floors) is: | meters above the LAG | | |
| b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next higher floor (i.e., the floor above basement, crawlspace, or enclosure floor) is: |] meters | | |
| H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevate H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the app Yes No | | | |
| SECTION I – PROPERTY OWNER (OR OWNER'S AUTHORIZED REPRESEN | TATIVE) CERTIFICATION | | |
| The property owner or owner's authorized representative who completes Sections A, B, and H must A, B, and H are correct to the best of my knowledge. Note: If the local floodplain management official indicate in Item G2.b and sign Section G. | | | |
| Check here if attachments are provided (including required photos) and describe each attachment | nt in the Comments area. | | |
| Property Owner or Owner's Authorized Representative Name: | | | |
| Address: | | | |
| | ZIP Code: | | |
| Telephone: Ext.: Email: | | | |
| Signature: Date: | | | |
| Comments: | | | |
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IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: | | | FOR INSURANCE COMPANY USE | |
|--|--------|----|---------------------------|----------------------|
| 8111 ARLEWOOD CIR | | | | Delieu Number |
| City: PORT CHARLOTTE | State: | FL | ZIP Code: 33981 | Policy Number: |
| | | | | Company NAIC Number: |

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/rowhouses). Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." Photographs must show the foundation. When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.



Photo One

Photo One Caption: FRONT VIEW (06-27-2024)

Clear Photo One



Photo Two

Photo Two Caption: REAR VIEW (06-27-2024)

Clear Photo Two

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 **BUILDING PHOTOGRAPHS**

Continuation Page

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: | | | FOR INSURANCE COMPANY USE | |
|--|---------|----|---------------------------|----------------|
| 8111 ARLEWOOD CIR City: PORT CHARLOTTE | State:_ | FL | ZIP Code: <u>33981</u> | Policy Number: |

Insert the third and fourth photographs below. Identify all photographs with the date taken and "Front View," "Rear View," "Right Side View," or "Left Side View." When flood openings are present, include at least one close-up photograph of representative flood openings or vents, as indicated in Sections A8 and A9.





Photo Three

Photo Three Caption: SIDES VIEWS (06-27-2024)

Clear Photo Three









Photo Four

Photo Four Caption: FLOOD VENTS VIEWS (06-27-2024)

Clear Photo Four



ICC-ES Evaluation Report

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ESR-2074

Reissued 02/2023 This report is subject to renewal 02/2025.

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



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ICC-ES Evaluation Report ESR-2074

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 and 2018 International Energy Conservation Code[®] (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)†

 $^{\dagger}\text{The ADIBC}$ 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

Reissued February 2023

This report is subject to renewal February 2025.

the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with ¹/₄-inch-by-¹/₄-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs 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 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

4.2 Flood Vent Sealing Kit

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

5.0 CONDITIONS OF USE

The Smart Vent® FVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Smart Vent® FVs must be installed in accordance with this report, the applicable code and the

- manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.
- **5.2** The Smart Vent[®] FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised 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. 19 MANTUA ROAD MOUNT ROYAL, NEW JERSEY 08061 (877) 441-8368 www.smartvent.com info@smartvent.com

TABLE 1—MODEL SIZES

| MODEL NAME | MODEL NUMBER | MODEL SIZE (in.) | COVERAGE (sq. ft.) |
|------------------------------------|-----------------|--|--------------------|
| FloodVENT® | 1540-520 | 15 ³ / ₄ " X 7 ³ / ₄ " | 200 |
| SmartVENT® | 1540-510 | 15 ³ / ₄ " X 7 ³ / ₄ " | 200 |
| FloodVENT® Overhead Door | 1540-524 | 15 ³ / ₄ " X 7 ³ / ₄ " | 200 |
| SmartVENT® Overhead Door | 1540-514 | 15 ³ / ₄ " X 7 ³ / ₄ " | 200 |
| Wood Wall FloodVENT® | 1540-570 | 14" X 8 ³ / ₄ " | 200 |
| Wood Wall FloodVENT® Overhead Door | 1540-574 | 14" X 8 ³ / ₄ " | 200 |
| SmartVENT® Stacker | 1540-511 | 16" X 16" | 400 |
| FloodVent® Stacker | 1540-521 | 16" X 16" | 400 |

For SI: 1 inch = 25.4 mm; 1 square foot = m^2

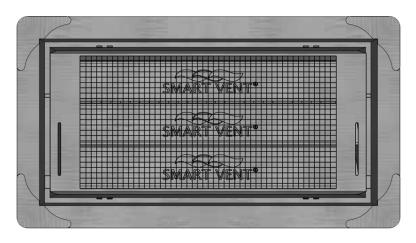


FIGURE 1—SMART VENT: MODEL 1540-510

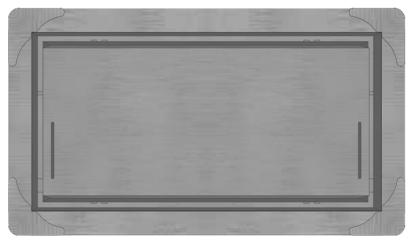


FIGURE 2—SMART VENT MODEL 1540-520



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

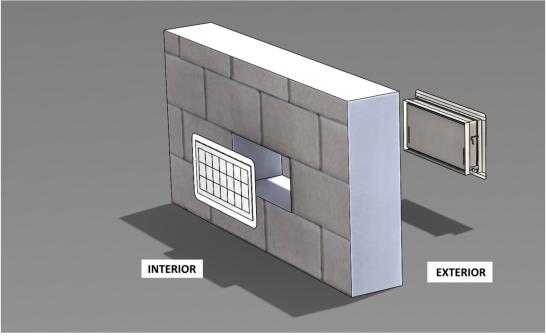


FIGURE 4—FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Reissued February 2023

This report is subject to renewal February 2025.

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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; #1540-524; #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) AKA: California Department of Health Care Access and Information (HCAI) and the 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 2023.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2023
This report is subject to renewal February 2025.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, 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 2023.



Business & Professional Regulation







Product Approval Menu > Application Detail

FL5822-R8 Application Type Affirmation Code Version 2020 Application Status 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 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 Evaluation Report - Hardcopy Received Florida Engineer or Architect Name who developed the Hermes F. Norero P.E. **Evaluation Report** PE-73778 Florida License 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 $\mbox{new Florida Building Code.}$ Documentation from approved Evaluation or Validation Entity $\mbox{$>${\rm Yes}$} \mbox{$>${\rm No}$} \mbox{$>${\rm N/A}$}$

FL5822 R8 COC SA5822 SS 2020-12-07.pdf

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 | |
| Limits of Use 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). | | Installation Instructions FL5822 R8 II 1540-510 SS 2017-08-23.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5022 SS 2018-06-20.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes | |
| 5822.2 | SmartVent Model #1540-511 | Dual Function Flood and Ventilation Vent | |
| Limits of Use 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). | | Installation Instructions FL5822 R8 II 1540-511 SS 2017-02-28.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5022 SS 2018-06-20.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes | |
| 5822.3 | SmartVent Model #1540-520 | Insulated Flood Vent | |
| Limits of Use 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). | | Installation Instructions FL5822 R8 II 1540-520 SS 2017-08-23.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5022 SS 2018-06-20.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes | |
| 5822.4 SmartVent Model #1540-521 | | Insulated Flood Vent | |
| Limits of Use 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). | | Installation Instructions FL5822 R8 II 1540-521 SS 2017-02-28.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5022 SS 2018-06-20.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes | |
| 5822.5 | SmartVent Model #1540-524 | 16" Garage Door Flood Vent | |
| Limits of Use 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. | | Installation Instructions FL5822 R8 II 1540-524 SS 2018-08-17.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5892 SS 2018-08-17.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes | |
| 5822.6 | SmartVent Model #1540-570 | Wood Wall Insulated Flood Vent | |
| Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes | | Installation Instructions FL5822 R8 II 1540-570 SS 2017-02-28.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 | |

| | 1 Iorida De | shaing code online |
|---|-------------|---|
| 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). | | Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5022 SS 2018-06-20.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes |
| 5822.7 SmartVent Model #1540-574 | | 14.5" Garage Door Flood Vent |
| Limits of Use 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. | | Installation Instructions FL5822 R8 II 1540-574 SS 2018-08-17.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL5822 R8 AE PER5892 SS 2018-08-17.pdf FL5822 R8 AE SmartVent - Impact Requirements SS 2017-08-23.pdf Created by Independent Third Party: Yes |





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Product Approval Accepts:



