

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 STONES THROW HOLDING, LLC					Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 620 BAY POINT AVE					Company NAIC Number:
City NOKOMIS		State Florida		ZIP Code 34275	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) METES AND BOUNDS OF LOT 1, BLOCK 31, CORRECTED PLAT OF BAY POINT, PLAT BOOK 3, PAGE 66, PID #0172100034					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)					RESIDENTIAL
A5. Latitude/Longitude: Lat. 27°07'06.36"N Long. 82°27'25.94"W					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 1B					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) N/A sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A					
c) Total net area of flood openings in A8.b N/A 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 485.00 sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 3					
c) Total net area of flood openings in A9.b 600.00 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 SARASOTA COUNTY 125144			B2. County Name SARASOTA COUNTY		B3. State Florida
B4. Map/Panel Number 12115C0327	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					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 620 BAY POINT AVE			Policy Number:	
City NOKOMIS	State Florida	ZIP Code 34275	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 J 634 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, crawspace, or enclosure floor) | <u>11.2</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor | <u>N/A</u> | <input 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>7.7</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>11.1</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>6.5</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>8.6</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>7.1</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 MICHAEL P ALLEN	License Number PSM6822		
Title OWNER			
Company Name BRIGHAM/ALLEN LAND SURVEYING, LLC			
Address 303 S. TAMiami TRAIL, SUITE E			
City NOKOMIS	State Florida		ZIP Code 34275
Signature 	Date 05-30-2023	Telephone (941) 493-4430	Ext.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

A5 SOURCE OF LAT/LONG IS HAND HELD GPS USING A CONVERSION APP (GPS TEST).
C2(e) ELEVATED AC UNIT IS LOCATED ON RIGHT SIDE OF HOUSE (NORTHERLY SIDE).
C2 BENCHMARK NGS J 634 HAS A PUBLISHED ELEVATION OF 10.58 FEET.
A9 3 SMARTVENTS (1540-520). 1 SMARTVENT 200 SQ FT OF COVERAGE, THEREFORE 200 X 3 = 600 SQ FT OF COVERAGE.

THIS IS TO CERTIFY THAT THE ABOVE NAMED ENGINEER HAS BEEN REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA AND IS AUTHORIZED TO PRACTICE AS SUCH.

DATE OF EXPIRATION OF THIS LICENSE: 12/31/81

NAME OF ENGINEER: [Name] ADDRESS: [Address] CITY: [City] STATE: [State] ZIP: [ZIP]

EXPIRES: 12/31/81

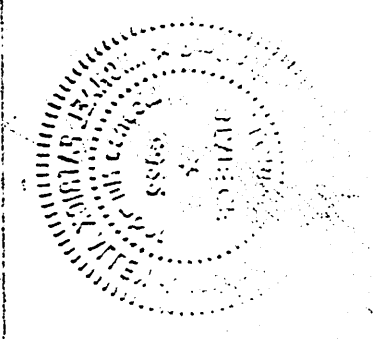
CLASSIFICATION: CIVIL ENGINEER

303 S. LAMAR AVENUE, SUITE 100, SAN ANTONIO, TEXAS 78205

COMPANY NAME: [Company Name]

CLASSIFICATION: CIVIL ENGINEER

REGISTERED IN: TEXAS



STATE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS, 1001 CALIFORNIA STREET, SACRAMENTO, CALIFORNIA 95833

SECTION B - SUMMARY OF EXPERIENCE OR ARCHITECTURAL EDUCATION

- a) [] years of experience in the field of []
b) [] years of experience in the field of []
c) [] years of experience in the field of []
d) [] years of experience in the field of []
e) [] years of experience in the field of []
f) [] years of experience in the field of []
g) [] years of experience in the field of []
h) [] years of experience in the field of []
i) [] years of experience in the field of []

INDICATE WHETHER YOU HAVE BEEN LICENSED IN ANY OTHER STATE OR COUNTRY: []

COMMENTS: [Comments]

OTHER INFORMATION: [Other Information]

SECTION C - EDUCATION INFORMATION (REQUIRED)

EDUCATION: [Education Details]

DEGREE: [Degree]

UNIVERSITY: [University Name]

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 620 BAY POINT AVE			Policy Number:
City NOKOMIS	State Florida	ZIP Code 34275	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.

FOR INSURANCE COMPANY USE		FOR INFORMATION: In these spaces, copy the corresponding information from Section A.	
Policy Number		Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	
Company NAIC Number		City	630 BAY POINT AVE
		State	FLORIDA
		ZIP Code	

**SECTION B - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)
FOR ZONE AO AND ZONE A (WITHOUT FEE)**

For Zones AO and A (without FEE), complete items B1-B3. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B and C. For items B1-B3, use natural grade. If available, check the measurement used, in Florida Flood only, enter meters.

B1 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 floodway adjacent grade (FAG):

(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 HAG

B2 For Building Diagrams B-9 with permanent flood openings provided in Section 8 and/or 9 (see pages 1-2 of instructions), the next highest floor (elevation 03.1) in the building is _____ feet meters above or below the HAG

B3 Attached garage (top of slab) is _____ feet meters above or below the HAG

B4 Top of elevation of machinery and/or equipment serving the building is _____ feet meters above or below the HAG

B5 Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in an enclosure with the community floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION C - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative with complete Sections A, B, and C for Zones A (without a FEMA-issued or community-issued FFE) or Zone AO must sign here. The statements in Sections A, B, and C are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative 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

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. 620 BAY POINT AVE			Policy Number:
City NOKOMIS	State Florida	ZIP Code 34275	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 20-163300 B1	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
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- 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.

PROPERTY: In these spaces, copy the corresponding information from Section A	
Building Street Address (including apt. #, unit, suite, and/or Bldg. No.) or P.O. Route and Box No.	City
520 BAY POINT AVE	NORFOLK
State	ZIP Code
Virginia	24578
Company Name/Number	Policy Number

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official with a master's of law or equivalent education to submit for the community's approval and signature and complete Sections A, B, C, E, F, and G of this Elevation Certificate. Complete the applicable items and sign below. Check the measurement used in items G2-G5 in Part 2 of this form only, enter meters.

The information in Section C was taken from other elevation information that has been signed and sealed by a licensed surveyor, engineer or architect who is qualified by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments section below.)

A community official completed Section B, C, E, F, and G of this form (without a FEMA-assigned or community-issued ERF) of Zone AO.

The following information (Form 04-010) is provided for community floodplain management purposes.

04. Permit Number	05. Date Permit Issued	06. Other Certificate of Conditions/Community issued
20-153800 B		

07. This permit has been issued for New Construction Substantial Improvement

08. Elevation of base of lowest floor (including basement) _____ feet meters Datum _____

09. ERF or in (Zone A) depth of flooding of the building area _____ feet meters Datum _____

10. Community's design flood elevation _____ feet meters Datum _____

Local Official's Name _____ Title _____

Community Name _____ Telephone _____

Signature _____ Date _____

Comments (including use of equipment and location for G2-G5, if applicable)

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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City NOKOMIS	State Florida	ZIP Code 34275	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.

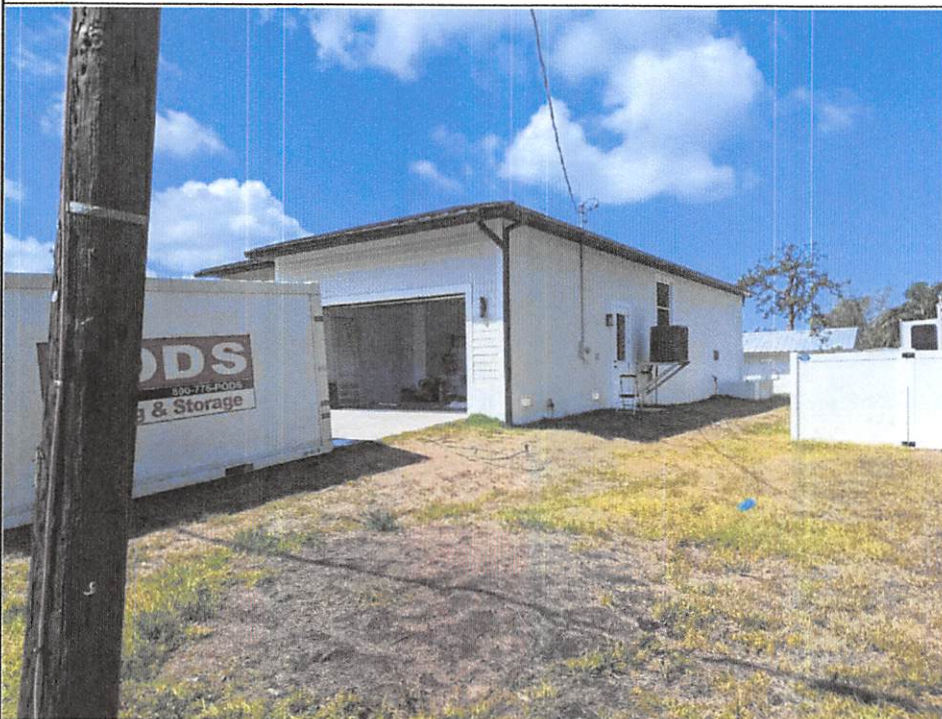


Photo One

Photo One Caption FRONT SIDE (NORTHERLY) 05/26/2023

Clear Photo One



Photo Two

Photo Two Caption FRONT SIDE (EASTERLY) 05/26/2023

Clear Photo Two

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
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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. 620 BAY POINT AVE			Policy Number:
City NOKOMIS	State Florida	ZIP Code 34275	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 REAR SIDE (WESTERLY) 05/26/2023

Clear Photo Three



Photo Four

Photo Four Caption REAR SIDE (SOUTHERLY) 05/26/2023

Clear Photo Four



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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**



*"2014 Recipient of Prestigious Western States Seismic Policy Council
(WSSPC) Award in Excellence"*



A Subsidiary of

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- Specialty code recognition

ICC-ES Evaluation Report

ESR-2074

Reissued February 2023

This report is subject to renewal February 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

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)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing

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

3.2 Engineered Opening:

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

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs 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:

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



Released February 2023

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENT

This report is subject to revision February 2023.

DIVISION: 55 00 00—OPERINGS
Section: 55 05 43—Ventilation Flood Vents
REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENT
MODEL: #1540-820, #1540-821, #1540-822, #1540-823, #1540-824, #1540-825, #1540-826, #1540-827, #1540-828, #1540-829, #1540-830, #1540-831, #1540-832, #1540-833, #1540-834, #1540-835, #1540-836, #1540-837, #1540-838, #1540-839, #1540-840, #1540-841, #1540-842, #1540-843, #1540-844, #1540-845, #1540-846, #1540-847, #1540-848, #1540-849, #1540-850, #1540-851, #1540-852, #1540-853, #1540-854, #1540-855, #1540-856, #1540-857, #1540-858, #1540-859, #1540-860, #1540-861, #1540-862, #1540-863, #1540-864, #1540-865, #1540-866, #1540-867, #1540-868, #1540-869, #1540-870, #1540-871, #1540-872, #1540-873, #1540-874, #1540-875, #1540-876, #1540-877, #1540-878, #1540-879, #1540-880, #1540-881, #1540-882, #1540-883, #1540-884, #1540-885, #1540-886, #1540-887, #1540-888, #1540-889, #1540-890, #1540-891, #1540-892, #1540-893, #1540-894, #1540-895, #1540-896, #1540-897, #1540-898, #1540-899, #1540-900, #1540-901, #1540-902, #1540-903, #1540-904, #1540-905, #1540-906, #1540-907, #1540-908, #1540-909, #1540-910, #1540-911, #1540-912, #1540-913, #1540-914, #1540-915, #1540-916, #1540-917, #1540-918, #1540-919, #1540-920, #1540-921, #1540-922, #1540-923, #1540-924, #1540-925, #1540-926, #1540-927, #1540-928, #1540-929, #1540-930, #1540-931, #1540-932, #1540-933, #1540-934, #1540-935, #1540-936, #1540-937, #1540-938, #1540-939, #1540-940, #1540-941, #1540-942, #1540-943, #1540-944, #1540-945, #1540-946, #1540-947, #1540-948, #1540-949, #1540-950, #1540-951, #1540-952, #1540-953, #1540-954, #1540-955, #1540-956, #1540-957, #1540-958, #1540-959, #1540-960, #1540-961, #1540-962, #1540-963, #1540-964, #1540-965, #1540-966, #1540-967, #1540-968, #1540-969, #1540-970, #1540-971, #1540-972, #1540-973, #1540-974, #1540-975, #1540-976, #1540-977, #1540-978, #1540-979, #1540-980, #1540-981, #1540-982, #1540-983, #1540-984, #1540-985, #1540-986, #1540-987, #1540-988, #1540-989, #1540-990, #1540-991, #1540-992, #1540-993, #1540-994, #1540-995, #1540-996, #1540-997, #1540-998, #1540-999, #1540-1000

1.0 EVALUATION SCOPE

Compliance with the following codes:
2021, 2015, 2018, 2009 and 2006 International Building Code (IBC)
2021, 2018, 2015, 2009 and 2006 International Residential Code (IRC)
2021 and 2018 International Energy Conservation Code (IECC)
2019 and 2018 International Building Code (IBC) (AIRC)
The IBC is a code of the 2009 IBC code edition. The IBC code edition in the report is the 2009 IBC code edition.

Proposed evaluation:

- Physical operation
- Water flow
- USE

The Smart Vent and the engineered mechanically operated flood vents (E-FV) employed to reduce hydrostatic pressure on walls of enclosures subject to rising or falling flood water. Certain models also allow natural ventilation.

2.0 DESCRIPTION

2.1 General
When subjected to rising water, the Smart Vent E-FV internal float and activated, then they open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The E-FV float door is normally held in the closed position by a system release device. When subjected to rising water, the system release device causes the unit to unlatch, allowing

The door to raise out of the way and allow flow. The water level stabilized, equalizing the lateral forces. Both unit is fabricated from stainless steel 316 Vent - automatic foundation flood vents are available in various materials and sizes as described in Table 1. The SmartVent® Standing Model #1540-811 and FloodVent® Standing Model #1540-821 units each contain two vertically swaged openings per unit.

3.0 Engineering Opening

The E-FV comply with the design principles noted in Section 2.1.1.2 and Section 2.1.3 of ASCE/SEI 24-14 (Section 2.6.2.2 of ASCE/SEI 24-09 (2009, 2006 IBC and IRC)) for a maximum rate of rise and fall of 0.0 feet per foot (0.433 mm/ft) in order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent E-FV must be installed in accordance with Section 4.0.

3.1 Ventilation

The SmartVent® Model #1540-810 and SmartVent® Flood Vent Model #1540-820 have screen covers with a 2-inch by 2-inch (50.8 mm) opening. The SmartVent® Model #1540-811 and FloodVent® Model #1540-821 consist of two Model #1540-810 and #1540-820 assemblies and provide 102 square inches (6580 mm²) of net free area to supply natural ventilation. Other E-FV described in this report do not offer natural ventilation.

3.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model #1540-830 is used with SmartVent® Model #1540-810. It is a 3-inch by 2-inch (76.2 mm) square kit (ESR-1341) used with 21 x 21 (531 mm x 531 mm) squares out in See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVent® and FloodVent®

SmartVent® and FloodVent® are designed to be installed into wall or overhead doors of existing or new construction from the exterior. Installation of the vents must be in accordance with the manufacturer's instructions. The applicable code and the report installation and show mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design change noted in Section 2.1.2 and 2.1.3 of ASCE/SEI 24-14 (Section 2.6.2.2 of ASCE/SEI 24-09 (2009, 2006 IBC and IRC)), the Smart Vent E-FV 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 = m²

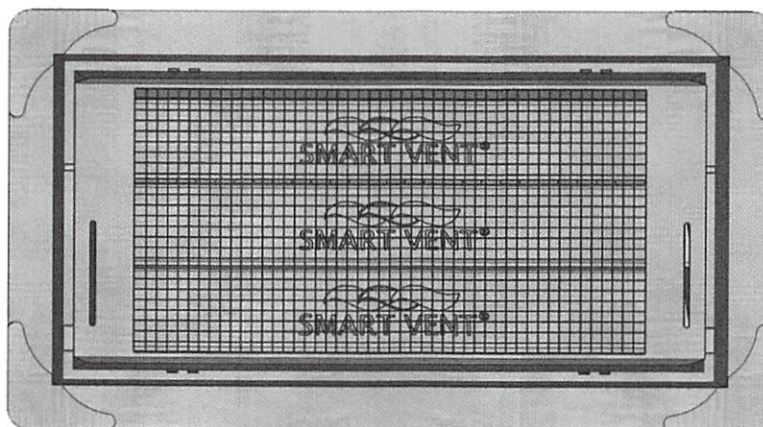


FIGURE 1—SMART VENT: MODEL 1540-510

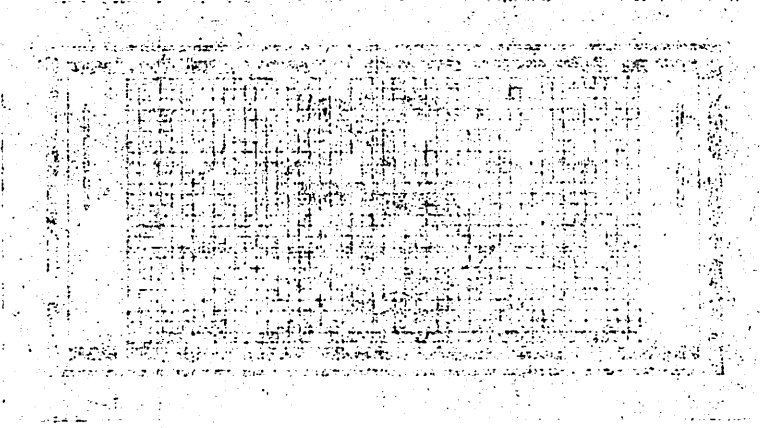


TABLE 1 - Model Sizes

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. in.)
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100
SHIRAZI ARREST MODEL	1240-221	10. X 10.	100

TABLE 1 - MODEL SIZES

with the report the evidence code and the ... The Shirazi Arrest Evidence Code is identified by model number ...

2.0. IDENTIFICATION OF EVIDENCE

(3) Model number(s) contained by the Shirazi Arrest Evidence Code ... with the report the evidence code and the ...

SHIRAZI ARREST MODEL

- 2.1. The Shirazi Arrest Model is identified by the following model number(s): (220-240)
- 2.2. The Shirazi Arrest Model is identified by the following model number(s): (220-240)
- 2.3. The Shirazi Arrest Model is identified by the following model number(s): (220-240)

- 2.4. The Shirazi Arrest Model is identified by the following model number(s): (220-240)
- 2.5. The Shirazi Arrest Model is identified by the following model number(s): (220-240)

3.0. EVIDENCE IDENTIFIED

- 3.1. Evidence identified by the Shirazi Arrest Model is identified by the following model number(s): (220-240)
- 3.2. Evidence identified by the Shirazi Arrest Model is identified by the following model number(s): (220-240)

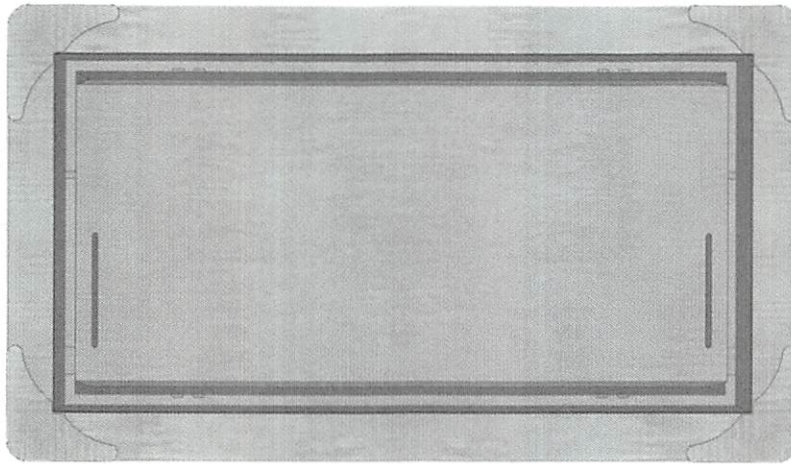


FIGURE 2—SMART VENT MODEL 1540-520

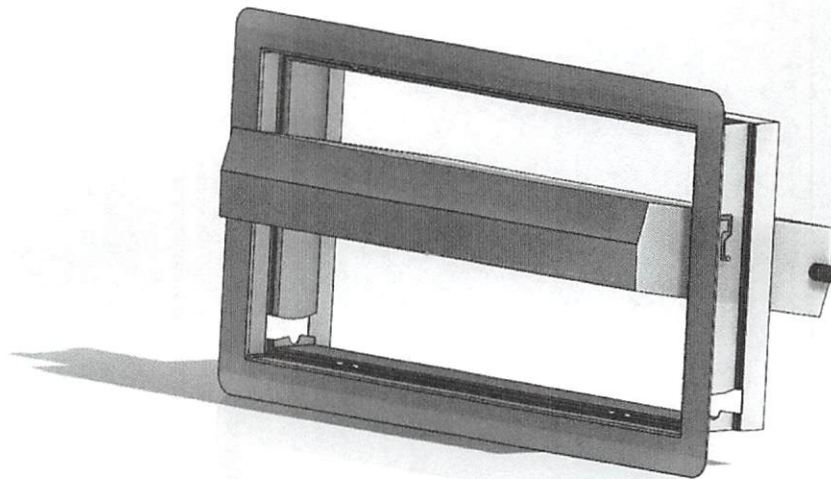


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

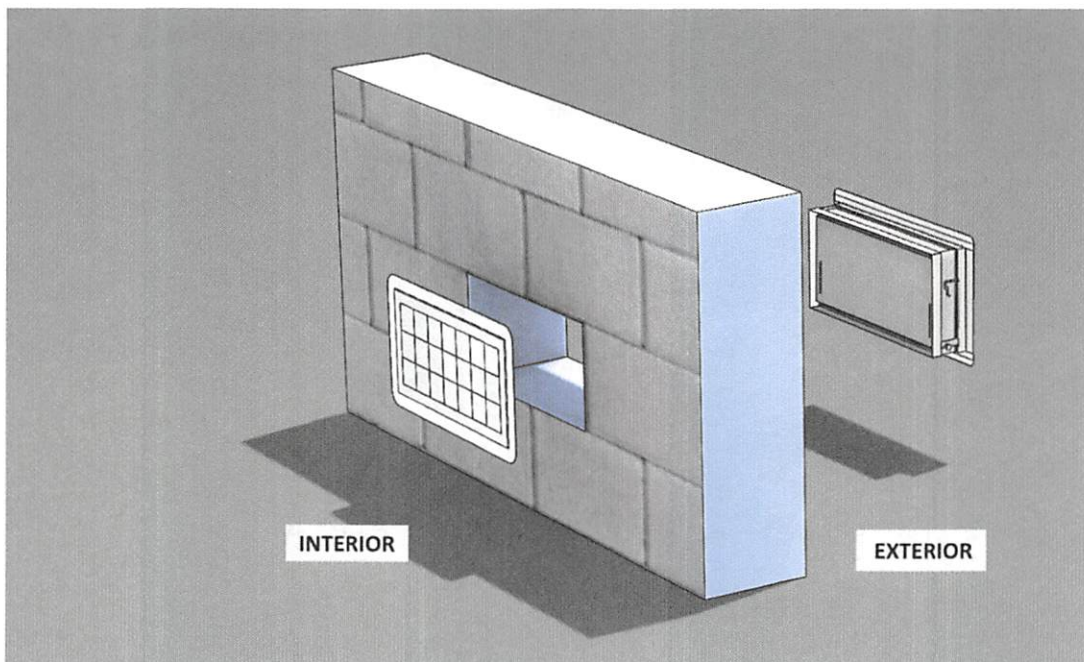


FIGURE 4—FLOOD VENT SEALING KIT

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 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.

Revised February 2006
 This report is submitted to the project sponsor.

Prepared for: A Subpart of the International Code Council
 (ICC) 530 North Zeeb Road, Suite 400, Tallahassee, FL 32310

DIVISION OF BUILDING SAFETY
 SECTION FOR AUTOMATIC FLOOD VENTS

REPORT NUMBER

SMART VENT PROJECTS, LLC

EVALUATION SUBJECT

SMART VENT AUTOMATIC FOUNDATION FLOOD VENTS: MODEL'S 5340-520; 5340-510; 5340-511
 5340-512; 5340-513; 5340-514; 5340-515; 5340-516; 5340-517; 5340-518; 5340-519; 5340-520

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report is to determine if the Smart Vent Automatic Foundation Flood Vents described in the evaluation report (EVR-1014) have been evaluated for compliance with codes noted below.

Applicable code editions:

2006 California Building Code (CBC)

The evaluation of applicable chapters is performed by the California Office of Building Safety Planning and Development (OBSPD) AKA California Department of Health Care Access and Information (DHCAI) and the Division of Building Safety (DBS). See Section 1.1 for a list of applicable codes.

2006 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent Automatic Foundation Flood Vents described in Section 1.0 of the evaluation report (EVR-1014) comply with the CBC Chapter 14, provide the design, installation and performance with the CBC Foundation Flood Vent Code (CBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 19 and 20 as applicable.

2.1.1 CBC 14.05:

The applicable CBC Chapter 14.05 and 14.06 and 14.07 are beyond the scope of this report.

2.1.2 CBC 14.08:

The applicable CBC Chapter 14.08 and 14.09 and 14.10 are beyond the scope of this report.

2.2 CRC:

The Smart Vent Automatic Foundation Flood Vents described in Section 1.0 of the evaluation report (EVR-1014) comply with the 2006 CRC provided the design and installation are in accordance with the CBC Foundation Flood Vent Code (CRC) provisions noted in the evaluation report.
 This equipment complies with the evaluation report (EVR-1014).

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511;
#1540-570; #1540-574; #1540-524; #1540-514
FLOOD VENT SEALING KIT #1540-526

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code editions:

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

2.0 CONCLUSIONS

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

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential*.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued February 2023.

This report is subject to general February 2023
Revised February 2023

A subsidiary of the International Code Council | (800) 433-5887 | (802) 833-5543

Division 08 15 43 - Flood Vents
Location 08 15 43 - Flood Vents for Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT AUTOMATED FLOOD VENT FLOOD VENTS, MODEL'S BSR-07A, BSR-07B, BSR-07C, BSR-07D, BSR-07E, BSR-07F, BSR-07G, BSR-07H, BSR-07I, BSR-07J, BSR-07K, BSR-07L, BSR-07M, BSR-07N, BSR-07O, BSR-07P, BSR-07Q, BSR-07R, BSR-07S, BSR-07T, BSR-07U, BSR-07V, BSR-07W, BSR-07X, BSR-07Y, BSR-07Z, BSR-07AA, BSR-07AB, BSR-07AC, BSR-07AD, BSR-07AE, BSR-07AF, BSR-07AG, BSR-07AH, BSR-07AI, BSR-07AJ, BSR-07AK, BSR-07AL, BSR-07AM, BSR-07AN, BSR-07AO, BSR-07AP, BSR-07AQ, BSR-07AR, BSR-07AS, BSR-07AT, BSR-07AU, BSR-07AV, BSR-07AW, BSR-07AX, BSR-07AY, BSR-07AZ, BSR-07BA, BSR-07BB, BSR-07BC, BSR-07BD, BSR-07BE, BSR-07BF, BSR-07BG, BSR-07BH, BSR-07BI, BSR-07BJ, BSR-07BK, BSR-07BL, BSR-07BM, BSR-07BN, BSR-07BO, BSR-07BP, BSR-07BQ, BSR-07BR, BSR-07BS, BSR-07BT, BSR-07BU, BSR-07BV, BSR-07BW, BSR-07BX, BSR-07BY, BSR-07BZ, BSR-07CA, BSR-07CB, BSR-07CC, BSR-07CD, BSR-07CE, BSR-07CF, BSR-07CG, BSR-07CH, BSR-07CI, BSR-07CJ, BSR-07CK, BSR-07CL, BSR-07CM, BSR-07CN, BSR-07CO, BSR-07CP, BSR-07CQ, BSR-07CR, BSR-07CS, 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BSR-07VZ, BSR-07WA, BSR-07WB, BSR-07WC, BSR-07WD, BSR-07WE, BSR-07WF, BSR-07WG, BSR-07WH, BSR-07WI, BSR-07WJ, BSR-07WK, BSR-07WL, BSR-07WM, BSR-07WN, BSR-07WO, BSR-07WP, BSR-07WQ, BSR-07WR, BSR-07WS, BSR-07WT, BSR-07WU, BSR-07WV, BSR-07WW, BSR-07WX, BSR-07WY, BSR-07WZ, BSR-07XA, BSR-07XB, BSR-07XC, BSR-07XD, BSR-07XE, BSR-07XF, BSR-07XG, BSR-07XH, BSR-07XI, BSR-07XJ, BSR-07XK, BSR-07XL, BSR-07XM, BSR-07XN, BSR-07XO, BSR-07XP, BSR-07XQ, BSR-07XR, BSR-07XS, BSR-07XT, BSR-07XU, BSR-07XV, BSR-07XW, BSR-07XX, BSR-07XY, BSR-07XZ, BSR-07YA, BSR-07YB, BSR-07YC, BSR-07YD, BSR-07YE, BSR-07YF, BSR-07YG, BSR-07YH, BSR-07YI, BSR-07YJ, BSR-07YK, BSR-07YL, BSR-07YM, BSR-07YN, BSR-07YO, BSR-07YP, BSR-07YQ, BSR-07YR, BSR-07YS, BSR-07YT, BSR-07YU, BSR-07YV, BSR-07YW, BSR-07YX, BSR-07YY, BSR-07YZ, BSR-07ZA, BSR-07ZB, BSR-07ZC, BSR-07ZD, BSR-07ZE, BSR-07ZF, BSR-07ZG, BSR-07ZH, BSR-07ZI, BSR-07ZJ, BSR-07ZK, BSR-07ZL, BSR-07ZM, BSR-07ZN, BSR-07ZO, BSR-07ZP, BSR-07ZQ, BSR-07ZR, BSR-07ZS, BSR-07ZT, BSR-07ZU, BSR-07ZV, BSR-07ZW, BSR-07ZX, BSR-07ZY, BSR-07ZZ

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report is to determine if the Smart Vent Flood Vent, described in ICC-ES evaluation report ESR-2023-114, has been evaluated for compliance with the code and below.

Applicable code editions:

IBC 2020 Building Code - Building

IBC 2020 Building Code - Residential

2.0 CONCLUSIONS

The Smart Vent Flood Vent, Model's BSR-07A through BSR-07Z, is an automatic flood vent that complies with the Flood Building Code - Building and the Flood Building Code - Residential, as they are listed in accordance with the Flood Building Code - Building and the Flood Building Code - Residential. The installation requirements listed in ICC-ES evaluation report ESR-2023-114 for BSR-07A through BSR-07Z are applicable to the Flood Building Code - Building and the Flood Building Code - Residential, as applicable.

Use of the Smart Vent Flood Vent in Flood Vents has also been found to be in compliance with the Flood Building Code - Building and the Flood Building Code - Residential.

For products listed under ESR-2023-114, it is noted that the manufacturer's quality assurance program is audited by a quality assurance entity approved by the Flood Building Code - Building and the Flood Building Code - Residential. The manufacturer's quality assurance program for each product is not subject to approval by the Flood Building Code - Building and the Flood Building Code - Residential.

This equipment is approved for use in Flood Vents. For more information, visit the evaluation report at www.iccsolutions.com.