U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency National Flood Insurance Program

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

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 Brett Fisher	Policy Number:			
 A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 18 North Washington Avenue Unit A 	Company NAIC Number:			
City State	ZIP Code			
City of Margate New Jersey	08402			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc. Block 227 Lot 316				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential				
A5. Latitude/Longitude: Lat. 39.3231 Long74.5146 Horizontal I	Datum: ☐ NAD 1927 🗵 NAD 1983			
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood	insurance.			
A7. Building Diagram Number7_	No.			
A8. For a building with a crawlspace or enclosure(s):				
a) Square footage of crawlspace or enclosure(s) 1263.00 sq ft				
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot a	bove adjacent grade [.] 7			
c) Total net area of flood openings in A8.b1400.00 sq in				
d) Engineered flood openings? 🗵 Yes 🗌 No				
A9. For a building with an attached garage:				
a) Square footage of attached garage0.00 sq ft				
b) Number of permanent flood openings in the attached garage within 1.0 foot above adja	cent grade 0			
c) Total net area of flood openings in A9.b 0.00 sq in				
d) Engineered flood openings? ☐ Yes ☒ No				
a, anglinores ileas speninger				
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFO	RMATION			
B1. NFIP Community Name & Community Number B2. County Name	B3. State			
CITY OF MARGATE & 345304 ATLANTIC COUNTY	New Jersey			
B4. Map/Panel B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)			
34001C0434 F 08-28-2018 08-28-2018 AE	10			
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:				
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source:				
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:				
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes 🕱 No				
Designation Date: CBRS OPA				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building FOR INSURANCE COMPANY USE					
Street Address (including Apt., Unit, Suite, and/or Bldg. No.	Policy Number:				
18 North Washington Avenue Unit A					
City State New		Code 402	Company NAIC Number		
SECTION C – BUILDING ELE	EVATION INFORMA	TION (SURVEY RE	QUIRED)		
C1. Building elevations are based on: Constructio	• _	ilding Under Constru	ction*		
*A new Elevation Certificate will be required when co		•	AE ABIAA AOO ABIAH ABIAO		
	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: private Vertical Datum: NAVD88				
Indicate elevation datum used for the elevations in ite	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I				
NGVD 1929 NAVD 1988 ☐ Other/S	, .	ow.			
Datum used for building elevations must be the same		BFE.	Observation of the control of the co		
a) Top of bottom floor (including basement, crawlsp.	ace or enclosure floo	r)	Check the measurement used. 7.4 🔀 feet 🦳 meters		
b) Top of the next higher floor	doc, or cholosure hoc	'/	15.1 🔀 feet 🦳 meters		
c) Bottom of the lowest horizontal structural membe	r (V Zones only)		N/A ☒ feet ☐ meters		
d) Attached garage (top of slab)	. (1 Zonos omy)		N/A X feet meters		
e) Lowest elevation of machinery or equipment serv (Describe type of equipment and location in Com	vicing the building		14.4 X feet meters		
f) Lowest adjacent (finished) grade next to building	•		6.0 🗵 feet 🗌 meters		
g) Highest adjacent (finished) grade next to building			6.2 X feet meters		
h) Lowest adjacent grade at lowest elevation of dec			6.2 🗷 feet 🦳 meters		
structural support					
SECTION D – SURVEYOR,					
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 lic	X Check here if attachments.				
Certifier's Name	License Number NJ24GS 04328800				
Paul M. Koelling, PLS, CFM Title	11324G3 04326600		<u>. </u>		
Professional Land Surveyor			Place		
Company Name					
Paul Koelling & Associates NJ C.O.A. 24GA28256300			Seal		
Address 2161 Shore Road PKsurvey1@c	comcast.net		Here		
City	State	ZIP Code			
Linwood	New Jersey	08221			
Signature	Date 7/06/22	Telephone (609) 927-0279	Ext.		
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.					
1	Comments (including type of equipment and location, per C2(e), if applicable) *A8b.) Seven (7) Smart Vents Model #1540-520 engineered for 200 square inches of net area each				
***C2a.) enclosures with storage, elevators, and staircases elevator pits (elev 5.0)					
***C2a.) enclosures with storage, elevators, and staircase		ev 5.0)			
C2a.) enclosures with storage, elevators, and staircase *C2e.) exterior air unit (elev 14.4)pool equipment (e	es elevator pits (ele	ev 5.0)			

ELEVATION CERTIFICATE

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

MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE					
Building Street Address (included 18 North Washington Avenue L.)	- · · · · · · · · · · · · · · · · · · ·	l/or Bldg. No.) or P	O. Route and Box No.	Policy Number:	
City City of Margate		State New Jersey	ZIP Code 08402	Company NAIC Number	
SECT			MATION (SURVEY NO	Γ REQUIRED)	
	FOR ZONI	E 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 (incomplete) crawlspace, or enclose 	ure) is		feet mete	ers 🔲 above or 🗌 below the HAG.	
 b) Top of bottom floor (incorrawlspace, or enclose 				ers	
		penings provided i	n Section A Items 8 and/o	or 9 (see pages 1–2 of Instructions),	
the next higher floor (eleventhe diagrams) of the build			feet mete	ers 🔲 above or 🔲 below the HAG.	
E3. Attached garage (top of sl	ab) is		feet mete	ers above or below the HAG.	
E4. Top of platform of machin servicing the building is	ery and/or equipment			ers above or below the HAG.	
E5. Zone AO only: If no flood floodplain management o				ccordance with the community's t certify this information in Section G.	
SECTIO	ON F - PROPERTY OW	NER (OR OWNER	S REPRESENTATIVE) (ERTIFICATION	
The property owner or owner's	authorized representativ	ve who completes	Sections A, B, and E for 2	one A (without a FEMA-issued or	
-	-		ections A, B, and E are co	orrect to the best of my knowledge.	
Troperty Owner or Owner's Au	Property Owner or Owner's Authorized Representative's Name				
Address		Ci	ty S	State ZIP Code	
Address Signature				State ZIP Code elephone	
Signature					
Signature					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corr	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, S 18 North Washington Avenue Unit A	No. Policy Number:			
City City of Margate	State ZIP Code New Jersey 08402	Company NAIC Number		
SECTIO	ON G - COMMUNITY INFORMATION (OPTIO	ONAL)		
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	Certificate. Complete the applicable item(s)			
	sen from other documentation that has been s zed by law to certify elevation information. (Inc			
G2. A community official completed Sect or Zone AO.	ion E for a building located in Zone A (without	a FEMA-issued or community-issued BFE)		
G3. The following information (Items G4-	-G10) is provided for community floodplain ma	anagement 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 Improven	nent		
G8. Elevation of as-built lowest floor (includin of the building:	g basement)	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 Title	CFM		
Community Name A ANGORI	relephone	603. 822-1974		
Signature	Date			
1.0		6/17/u		
Comments (including type of equipment and lo	cation, per C2(e), if applicable)			
		Check here if attachments.		



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ICC-ES Evaluation Report

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ESR-2074

Reissued 02/2021 Revised 04/2021 This report is subject to renewal 02/2023.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

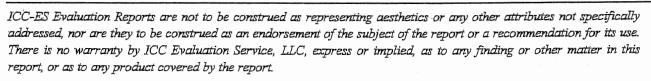
SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2021 Revised April 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2021, 2018 International Energy Conservation Code® (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)†

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:

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. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (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 " × 7 ³ / ₄ "	- 200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " × 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " × 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" × 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 St: 1 inch = 25.4 mm; 1 square foot = m²

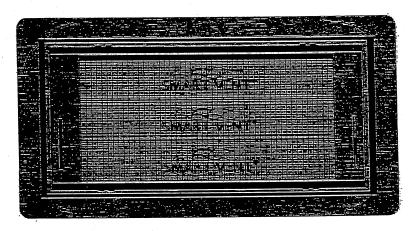


FIGURE 1-SMART VENT: MODEL 1540-510

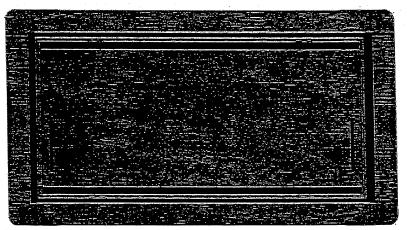


FIGURE 2-SMART VENT MODEL 1540-520

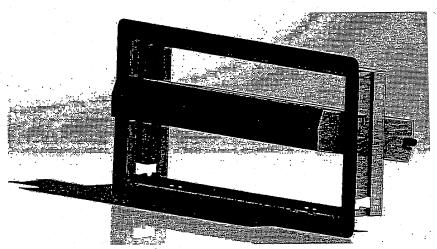


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

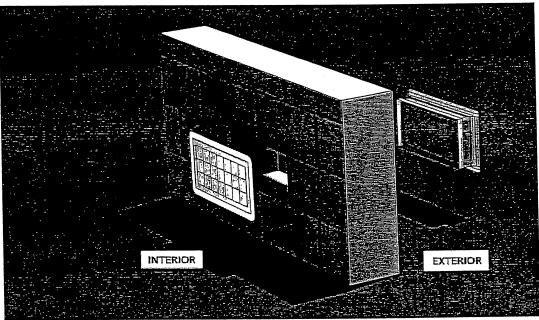


FIGURE 4-FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Reissued February 2021 Revised April 2021

This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code editions:

■ 2019 California Building Code (CBC)

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

■ 2019 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC;

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the evaluation report ESR-2074, comply with 2019 CBC Chapter 12, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 12 and 16, as applicable.

2.1.1 OSHPD:

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

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

2.2 CRC:

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

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





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2021 Revised April 2021 This report is subject to renewal February 2023.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code editions:

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

2.0 CONCLUSIONS

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

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

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

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



Page 5 of 5

Building Photographs

-	For Insurance Company Use:		
Building Street Address (including Apt., Unit, Suite, and/or Bldg.) No. or P.O. Route and Box No. #18 North Washington Avenue			Policy Number
City Margate	State New Jersey	ZIP Code 08402	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.





Front View – Date of Photograph: (See Photo Stamp)

Rear View - Date of Photograph: (See Photo Stamp)





Right Side View – Date of Photograph: (See Photo Stamp)

Vent View – Date of Photograph: (See Photo Stamp)