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 INSUR	ANCE COMPANY USE
A1. Building Owner's Nar Brett Fisher	ne				Policy Numb	per:
	ss (including Apt., Unit, Suite	e, and/o	r Bldg. No.) o	P.O. Route and	Company N	AIC Number:
Box No. 18 North Washington Ave	nue Unit B					
City			State		ZIP Code	
City of Margate			New Jers	sey	08402	
A3. Property Description Block 227 Lot 316	(Lot and Block Numbers, Ta	x Parcel	Number, Leg	gal Description, etc	:.)	
A4. Building Use (e.g., Re	esidential, Non-Residential,	Addition	, Accessory, e	etc.) Residentia	I - 4 - 14 - 14 - 15	·
A5. Latitude/Longitude:	Lat. 39.3231	Long7	4.5146	Horizontal	Datum: NAD 1	927 🔀 NAD 1983
A6. Attach at least 2 phot	ographs of the building if the	e Certific	ate is being u	sed to obtain flood	l insurance.	
A7. Building Diagram Nur	nber 7					
A8. For a building with a	crawlspace or enclosure(s):					
a) Square footage of	crawlspace or enclosure(s)		1	263.00 sq ft		
b) Number of permar	nent flood openings in the cra	awispace	e or enclosure	e(s) within 1.0 foot	above adjacent gra	de 7
	ood openings in A8.b	•				100 - 100 -
d) Engineered flood	openings? 🛛 Yes 🔲 N	lo	•			
		.0				
,	A9. For a building with an attached garage: a) Square footage of attached garage 0.00 sq ft					·
	nent flood openings in the att				acent grade 0	
		aonea g			Joeni grade 5	
c) Total net area of fl	-		ps <u>00.0</u>			
d) Engineered flood o	d) Engineered flood openings? ☐ Yes ☒ No					
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Nan CITY OF MARGATE &			B2. County ATLANTIC			B3. State New Jersey
CITT OF WARGATE &	345304	1	ATLANTIC	COUNTY		New Jersey
B4. Map/Panel B5. S Number	Suffix B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
34001C0434 F	08-28-2018	08-28-2		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)? Tyes 🗵 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.) or P.O. Route and Box No.	Policy Number:				
18 North Washington Avenue Unit B					
City State ZIP Code	Company NAIC Number				
City of Margate New Jersey 08402					
SECTION C - BUILDING ELEVATION INFORMATION (SURVE	Y REQUIRED)				
C1. Building elevations are based on: Construction Drawings* Building Under Co	nstruction* X 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: private Vertical Datum: NAVD88					
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.	Charlette management and				
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	Check the measurement used. 7.4 ★ feet meters				
b) Top of the next higher floor	15.1 X feet meters				
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A ☒ feet ☐ meters				
d) Attached garage (top of slab)	N/A 🛛 feet 🦳 meters				
e) Lowest elevation of machinery or equipment servicing the building	14.4 🗵 feet 🗌 meters				
(Describe type of equipment and location in Comments)	6.0 🔀 feet 🗌 meters				
f) Lowest adjacent (finished) grade next to building (LAG)					
g) Highest adjacent (finished) grade next to building (HAG)	6.2 X feet meters				
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	6.2 X feet meters				
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CER	RTIFICATION				
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 \(\subseteq \) No \(\subseteq \) Check here if attachments					
Certifier's Name License Number					
Paul M. Koelling, PLS, CFM NJ24GS 04328800					
Title Professional Land Surveyor					
Company Name	Place				
Paul Koelling & Associates NJ C.O.A. 24GA28256300	Seal				
Address	Here				
2161 Shore Road PKsurvey1@comcast.net	20: 0				
City State ZIP Code Linwood New Jersey 08221					
Signature Date Telephone 7/06/22 (609) 927-02	Ext. 79				
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) *A8b.) Seven (7) Smart Vents Model #1540-520 engineered for 200 square inches of net area each					
	each				
	each				
*A8b.) Seven (7) Smart Vents Model #1540-520 engineered for 200 square inches of net area	each				

ELEVATION CERTIFICATE

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

D 11 01 (A11 // 1 11 A11 // 2 11	MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY US				
Building Street Address (including Apt., Unit, Suite, a 18 North Washington Avenue Unit B	and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:		
City	State	ZIP Code	Company NAIC Number		
City of Margate	New Jersey	08402			
SECTION E – BUILDING FOR ZO		RMATION (SURVEY N E A (WITHOUT BFE)	OT REQUIRED)		
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 	Management of the State of the		eters above or below the HAG.		
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet m	eters above or below the LAG.		
E2. For Building Diagrams 6–9 with permanent floor	d openings provided	· — —			
the next higher floor (elevation C2.b in the diagrams) of the building is			eters above or below the HAG.		
E3. Attached garage (top of slab) is		feet m	eters above or below the HAG.		
E4. Top of platform of machinery and/or equipment servicing the building is			eters above or below the HAG.		
E5. Zone AO only: If no flood depth number is available.		e bottom floor elevated ir			
SECTION F - PROPERTY O	WNER (OR OWNE	R'S REPRESENTATIVE) CERTIFICATION		
	~				
The property owner or owner's authorized represent community-issued BFE) or Zone AO must sign here	The statements in	Sections A, B, and E fo 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		
Address Signature		City	State ZIP Code Telephone		
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	No. Policy Number:				
18 North Washington Avenue Unit B					
City City of Margate	State ZIP Code New Jersey 08402	Company NAIC Number			
SECTIO	ON G - COMMUNITY INFORMATION (OPTIC	DNAL)			
T- 1 (6:11) (6:11)					
Sections A, B, C (or E), and G of this Elevation	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.				
	engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation				
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 (including 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	Telephone	CFM			
Community Name	relephone	608.822-1974			
Signature	Date				
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:

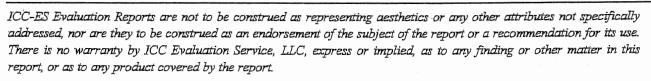
SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514 FLOOD VENT SEALING KIT #1540-526



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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

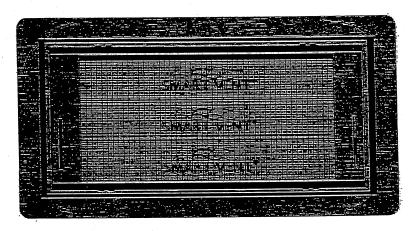


FIGURE 1-SMART VENT: MODEL 1540-510

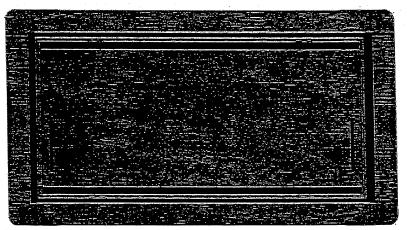


FIGURE 2-SMART VENT MODEL 1540-520

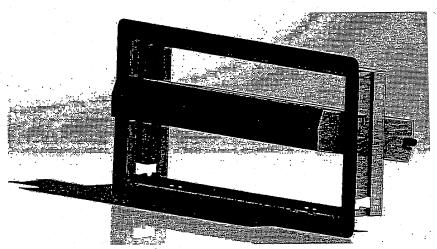


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

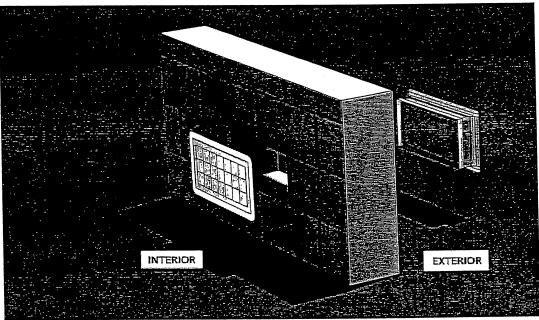


FIGURE 4-FLOOD VENT SEALING KIT



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., Ul #18 North Washington Avenu	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)