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 INFOR	MATION		FOR INSUR	ANCE COMPANY USE	
A1. Building Owner's Name Policy Number:						
Anthony & Margaret Lennon A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number:						
Box No.	Apt., Unit, Suite, and/o	r Blag. No.) o	P.O. Route and	Company N	AIC Number:	
416 E Bay Avenue						
City		State		ZIP Code		
Barnegat A3 Preparty Description (Let and Block	I. M. ash ass. Tax Dans	New Jers		08005		
A3. Property Description (Lot and Bloc Lots 16 & 17 Block 208	CK Numbers, Tax Parce	i Number, Leg	jai Description, etc.)		
A4. Building Use (e.g., Residential, No	on-Residential, Addition	, Accessory, e	etc.) Residential			
A5. Latitude/Longitude: Lat. 39°45	'38.24" N Long.	74°11'34.59'	W Horizontal I	Datum: 🔲 NAD 1	927 × NAD 1983	
A6. Attach at least 2 photographs of the	ne building if the Certific	cate is being u	sed to obtain flood	insurance.		
A7. Building Diagram Number 6						
A8. For a building with a crawlspace o	r enclosure(s):					
a) Square footage of crawlspace (or enclosure(s)		342.64 sq ft			
b) Number of permanent flood ope	-			above adjacent gra	ide 2	
c) Total net area of flood openings	s in A8.b	400.00 sq in				
	⊠ Yes □ No					
A9. For a building with an attached gar						
a) Square footage of attached gar	_	N/A sg ft				
b) Number of permanent flood ope				cent grade N/A		
c) Total net area of flood openings		N/A sq	•			
	*	19/71 54				
d) Engineered flood openings?	Yes No					
SECTION	N B - FLOOD INSURA	NCE RATE	MAP (FIRM) INFO	RMATION		
B1. NFIP Community Name & Commu	nity Number	B2. County	Name		B3. State	
Township of Barnegat / 340396		Ocean			New Jersey	
ll 44 ' 4	Date Eff	RM Panel ective/	B8. Flood Zone(s)	B9. Base Flood E	levation(s) e Base Flood Depth)	
34029C0414 F 09-29	Re 9-2006 09-29-	vised Date 2006	AE		6.0'	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
FIS Profile X FIRM Community Determined Other/Source:						
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Tyes 💢 No						
Designation Date:						

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	information from Sec	tion A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or 416 E Bay Avenue	Bldg. No.) or P.O. Rou	e and Box No.	Policy Number:		
City Stat Barnegat New	te ZIP 0		Company NAIC Number		
SECTION C - BUILDING EL	EVATION INFORMAT	ION (SURVEY RE	EQUIRED)		
SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on:					
h) Lowest adjacent grade at lowest elevation of dec	,				
structural support SECTION D SURVEYOR,	ENGINEED OF ARC	UITECT CEDTIEI			
This certification is to be signed and sealed by a land sur I certify that the information on this Certificate represents statement may be punishable by fine or imprisonment un Were latitude and longitude in Section A provided by a lice	veyor, engineer, or arch my best efforts to inter der 18 U.S. Code, Sect	nitect authorized by oret the data availa ion 1001.	law to certify elevation information		
Certifier's Name Robert L. Vallee, PLS	License Number 43276				
Title Land Surveyor Company Name Vallee Surveying, Inc. Address PO Box 419 City Hainesport	State New Jersey	ZIP Code 08036	Place Seal Here		
Signature Robertul	Date 07-25-2022	Telephone (732) 244-2373	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) A/C at elev.=13.22'. Furnace and HWH are at elev.=9.52'. Electrical meter is at elev.=9.60'. Enclosure (342.64 SF) is at elev.=4.53' with 2 flood vents, Smart Vent model #1540-10 rated 200 sq ft each. ***Preliminary Updated FEMA Flood Hazard Data BFE=AE8. Release date 01/30/15*** This information is to be used for insurance purposes only.					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding	g information from Section	n A.	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/o	or Bldg. No.) or P.O. Route a	ind Box No.	Policy Number:			
City	ate ZIP Cod	le	Company NAIC Number			
Barnegat	ew Jersey 08005		, ,			
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–l complete Sections A, B,and C. For Items E1–E4, use nat enter meters.	E5. If the Certificate is intenditural grade, if available. Che	led to support a ck the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,			
E1. Provide elevation information for the following and cities the highest adjacent grade (HAG) and the lowest ad a) Top of bottom floor (including basement,	heck the appropriate boxes jacent grade (LAG).	to show whethe	r the elevation is above or below			
crawlspace, or enclosure) is		feet meter	rs above or below the HAG.			
 Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet meter	rs above or below the LAG.			
E2. For Building Diagrams 6–9 with permanent flood ope	enings 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 meter	s above or below the HAG.			
E3. Attached garage (top of slab) is		feet meter	s above or below the HAG.			
E4. Top of platform of machinery and/or equipment servicing the building is		feet meter	s above or below the HAG.			
E5. Zone AO only: If no flood depth number is available,	is the top of the bottom floo	r elevated in ac	liminal liminal			
SECTION F - PROPERTY OWNE	R (OR OWNER'S REPRES	ENTATIVE) CE	ERTIFICATION			
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sections A, statements in Sections A,	B, and E for Zo B, and E are cor	one A (without a FEMA-issued or rect to the best of my knowledge.			
Property Owner or Owner's Authorized Representative's	Name					
Address	City	St	ate ZIP Code			
Signature	Date	Те	lephone			
Comments						
		•				
		e				
		e d				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information fr	om Section A.	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P 416 E Bay Avenue	.O. Route and Box No.	Policy Number:				
City State	ZIP Code	Company NAIC Number				
Barnegat New Jersey	08005					
SECTION G - COMMUNITY INFO	ORMATION (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 or Zone AO.	in Zone A (without a FEMA	A-issued or community-issued BFE)				
G3. The following information (Items G4–G10) is provided for comm	nunity floodplain manageme	ent purposes.				
G4. Permit Number G5. Date Permit Issued		Date Certificate of Compliance/Occupancy Issued				
G7. This permit has been issued for:	ıbstantial 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	itle					
Community Name T	elephone					
Signature	ate	<u> </u>				
Comments (including type of equipment and location, per C2(e), if applica	able)					
	,					
		-				
		_				
-						
		Check here if attachments.				

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008

Expiration Date: November 30, 2022

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE Policy Number:		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 416 E Bay Avenue			
City Barnegat	State New Jersey	ZIP Code 08005	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.

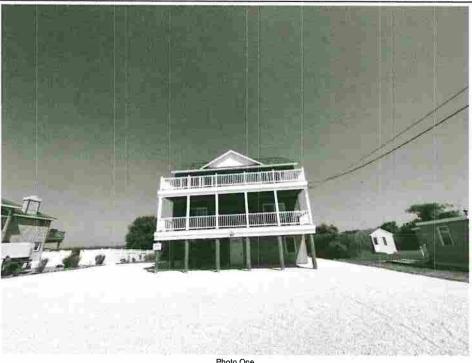


Photo One

Photo One Caption Front View (07/20/22)

Clear Photo One



Photo Two

Photo Two Caption Rear View (07/20/22)

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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 Ap 416 E Bay Avenue	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Barnegat	New Jersey	08005	

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 Flood Vent (07/20/22)

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four

National Flood Hazard Layer FIRMette



Legend

Township of Barnegat Zone AE (EL 6 Feet) Feet eff. 9/29/2006 eff 12/16/2021 34029005026 3402900414F EL 6 Feet) Zone AE 340396

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage Area of Undetermined Flood Hazard Zone areas of less than one square mile Zone Area with Flood Risk due to Levee Zone D B 20.2 Cross Sections with 1% Annual Chance With BFE or Depth Zone AE AO AH, VE. AR Area with Reduced Flood Risk due to No screen Area of Minimal Flood Hazard Zone Without Base Flood Elevation (BFE) Channel, Culvert, or Storm Sewer Base Flood Elevation Line (BFE) Future Conditions 1% Annual Coastal Transect Baseline Chance Flood Hazard Zone GENERAL ---- Channel, Culvert, or Storn STRUCTURES | 1111111 Levee, Dike, or Floodwall Water Surface Elevation Levee. See Notes. Zone **Jurisdiction Boundary** Hydrographic Feature Regulatory Floodway **Effective LOMRs** Coastal Transect Profile Baseline . Limit of Study 17.5 www. 513 man OTHER SPECIAL FLOOD HAZARD AREAS OTHER AREAS OF FLOOD HAZARD OTHER AREAS

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represen an authoritative property location.

This map complies with FEMA's standards for the use of The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below.

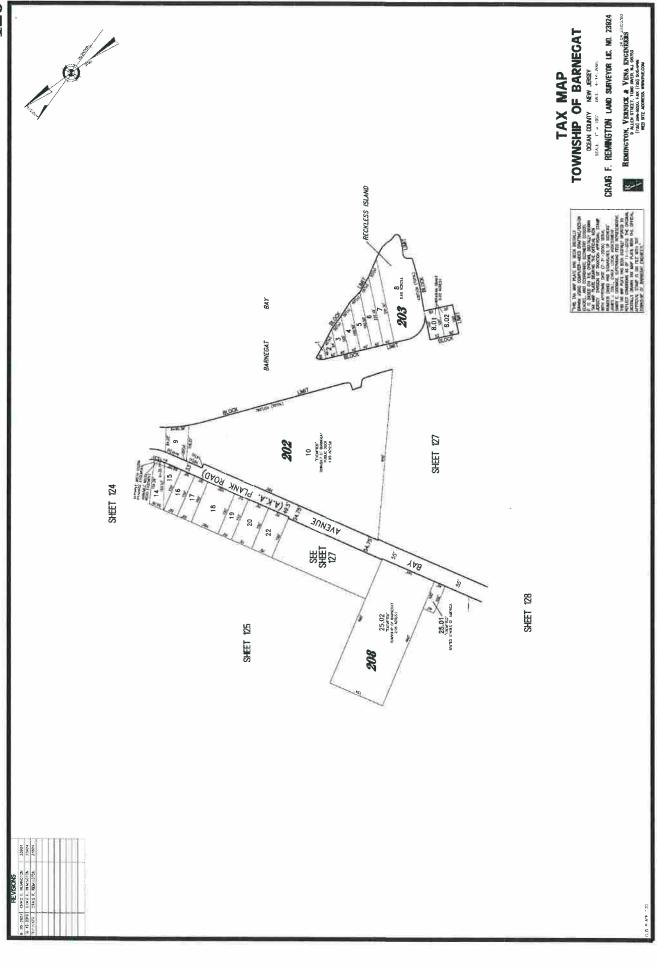
authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the 24 AM and does not become superseded by new data over time. was exported on 7/25

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for regulatory purposes.

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NOTES TO USERS

This map is for use in administering the Material Proof Secretarion Proof Education creditage commissions in the China administration in the secretarion of the production.

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V you have questions about this map or questions concerning the National Paped Insurance Program in general, please call 14377-FEMA MAP (14377-335-3827) or viol the FEMA varietie of this femantiem agon.

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PANEL 0414F

FIRM FLOOD INSURANCE RATE MAP

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PANEL 414 OF 611

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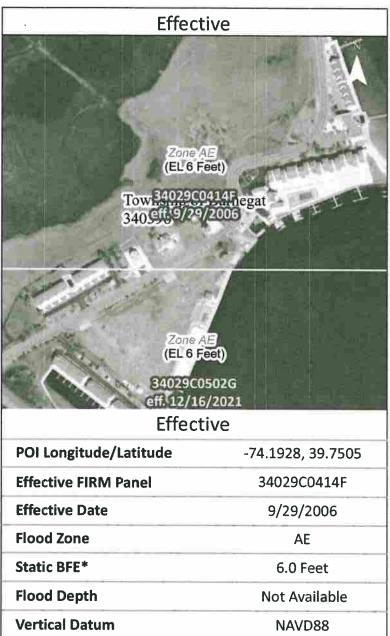
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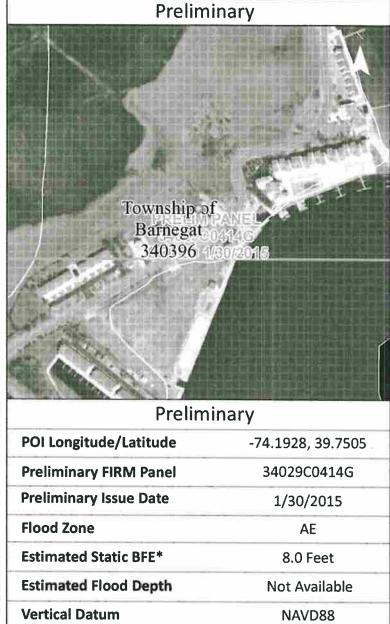
EFFECTIVE DATE SEPTEMBER 29, 2006

Comparison of Flood Hazard

Effective & Preliminary Flood Hazards







* A Base Flood Elevation is the expected elevation of flood water during the 1% annual chance storm event. Structures below the estimated water surface elevation may experience flooding during a base flood event.

Hazard Level

Flood Hazard Zone

High Flood Hazard

AE, A, AH, AO, VE and V Zones. Properties in these flood zones have a 1% chance of flooding each year. This represents a 26% chance of flooding over the life of a 30-year mortgage.

Moderate Flood Hazard Shaded Zone X. Properties in the moderate flood risk areas also have a chance of flooding from storm events that have a less than 1% chance of occurring each year. Moderate flood risk indicates an area that may be provided flood risk reduction due to a flood control system or an area that is prone to flooding during a 0.2% annual chance storm event. These areas may have been indicated as areas of shallow flooding by your community.

Unshaded Zone X. Properties on higher ground and away from local flooding sources have a reduced flood risk when compared to the Moderate and High Flood Risk categories. Structures in these areas may be affected by larger storm events, in excess of the 0.2% annual chance storm event.

Low Flood Hazard

Insurance Note: High Risk Areas are called 'Special Flood Hazard Areas' and flood insurance is mandatory for federally backed mortgage holders. Properties in Moderate and Low Flood Risk areas may purchase flood insurance at a lower-cost rate, known as Preferred Risk Policies. See your local insurance agent or visit https://www.fema.gov/national-flood-insurance-program for more information.

Disclaimer: This report is for informational purposes only and is not authorized for official use. The positional accuracy may be compromised in some areas. Please contact your local floodplain administrator for more information or go to msc.fema.gov to view an official copy of the Flood Insurance Rate Maps.

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Most Widely Accepted and Trusted

ESR-2074

Reissued 02/2019 This report is subject to renewal 02/2021.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:

MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574;

#1540-524; #1540-514

FLOOD VENT SEALING KIT #1540-526



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

A Subsidiary of CODE COUNCE

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ICC-ES Evaluation Report

ESR-2074

Reissued February 2019

This report is subject to renewal February 2021.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

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:

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

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

Properties evaluated:

- Physical operation
- Water flow

2.0 **USES**

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

3.0 DESCRIPTION

3.1 General:

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

Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

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

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with \$^1/4\$-inch-by-\$^1/4\$-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 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 recognized in this report do not offer natural ventilation.

3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 - 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

4.0 DESIGN AND INSTALLATION

4.1 SmartVENT® and FloodVENT®:

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square



feet (18.6 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 October 2017).
- 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 recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).
- **7.2** The report holder's contact information is the following:

SMART VENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368

www.smartvent.com info@smartvent.com

TABLE 1-MODEL SIZES	TABL	E 1-	-MO	DEL	SIZES
---------------------	-------------	------	-----	-----	-------

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

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

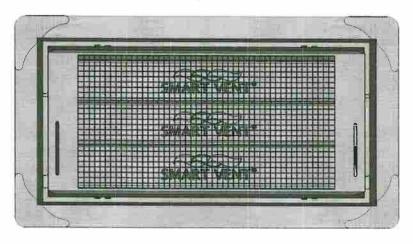


FIGURE 1-SMART VENT: MODEL 1540-510

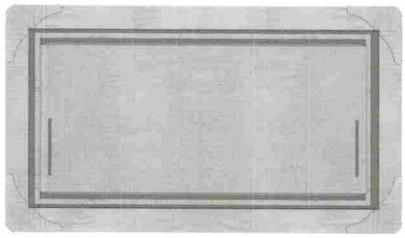


FIGURE 2-SMART VENT MODEL 1540-520

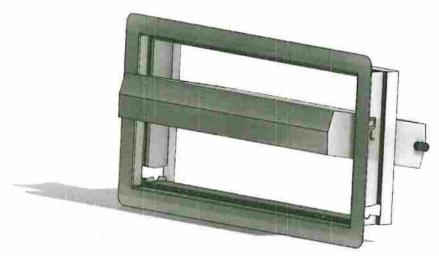


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

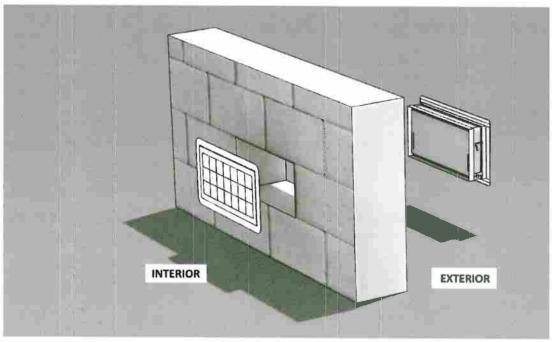


FIGURE 4-FLOOD VENT SEALING KIT



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Reissued February 2019

This report is subject to renewal February 2021.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

EVALUATION SUBJECT:

SMART VENT[®] AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-524; #1540-524; #1540-526

1.0 REPORT PURPOSE AND SCOPE

Purpose:

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

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code®* (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code[®].

This supplement expires concurrently with the master report, reissued February 2019.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

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DIVISION: 08 00 00—OPENINGS

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REPORT HOLDER:

SMART VENT PRODUCTS, INC.

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SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #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, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *International Building Code®* provisions noted in the master report.

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

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2019.



V ZONE DESIGN CERTIFICATE
Name <u>Jersey Shore Modular Homes</u> Policy Number (Insurance Co. Use)
Building Address or Other Description 416 Bay Avenue
Permit No. 2022-0100 City Barnegat State N.J. Zip Code 08005
SECTION I: Flood Insurance Rate Map (FIRM) Information
Community No. 340396 Panel No. 0414 Suffix G FIRM Date 1/30/2015 FIRM Zone(s) Coastal A Zone=AE
SECTION II: Elevation Information Used for Design [NOTE: This section documents elevations used in the design – it does not substitute for an Elevation Certificate.]
1. Elevation of the Bottom of Lowest Horizontal Structural Member
SECTION III: V Zone Design Certification Statement [NOTE. This section must be certified by a registered engineer or architect.]
I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions: • The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated
 to or above the BFE; and The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.
SECTION IV: Breakaway Wall Design Certification Statement [NOTE. This section must also be certified by a registered engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot.]
certify that (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) that the design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions: • Breakaway wall collapse shall result from a water load less than that which would occur during the base flood; and • The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (wind and water loading values to be used are defined in Section III).
SECTION V: Certification and Seal
his certification is to be signed and cooled by a registered as for the last of the signed and cooled by a registered as for the last of the signed and cooled by a registered as for the signed and cooled by a registered as for the signed and cooled by a registered as for the signed and cooled by a registered as for the signed and cooled by a registered as for the signed and cooled by a registered as for the signed and cooled by a registered as for the signed

This certification is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement in Section III and the Breakaway Wall Design Certification Statement in Section IV (if applicable).

Robert A. Woodcock, P.	E. GE 389	940	£
Certifier's Name Principal	JCR Engineering, LLC	nse Number	Place Seal
Title 915 Lacey/Road,	Company Name Forked River	N.J. 08731	Here
Address	Oity 732 8	State ZIP	
Signature	Date Telep	phone	