# Ú.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency Național Flood Insurance Program

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

## ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

AUG 17000

	SE	CTION A - PROPER	TY INFOR	RMATION		FG	R INSURANCE COMPANY (
A1. Building Own TCW Construction						Po	licy Number:
<ul><li>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Rou Box No.</li><li>9913 Sunset Drive</li></ul>			or P.O. Route a	Company NAIC Number:			
City Stone Harbor				State New J	•	08	<sup>P</sup> Code 247
A3. Property Des Block 200.01 Lot		and Block Numbers, 305 & 306	Tax Parce	l Number, L	egal Description	, etc.)	
A4. Building Use	(e.g., Reside	ential, Non-Residentia	al. Addition	, Accessory	, etc.) Reside	ntial	A Commence of the Commence of
A5. Latitude/Long	itude Lat.	N 39°03′14.66″	Long. V	V 074°45'58	.14" Horizo	ntal Datum: 「	NAD 1927 NAD 1983
A6. Attach at leas	t 2 photogra	phs of the building if	- the Certific	cate is being	used to obtain f	lood insuranc	9
A7. Building Diagr							
A8. For a building	with a craw	Ispace or enclosure(s	s):				
a) Square foo	tage of crav	vispace or enclosure(	s)		1200.00 sq ft		
b) Number of	permanent f	flood openings in the				oot above adj	acent grade 5
		openings in A8.b		1200.00 sq		-	
d) Engineered	I flood open	ings? Yes	No				
A9. For a building	with an attac	ched garage:					
a) Square foot				576.00 sq	ft		
		lood openings in the a					•
		penings in A9.b	attached g			adjacent grade	3
				900.00 s	q ın		
a) Engineerea	11000 openii	ngs? 🛛 Yes 🗍	No				
	S	ECTION B - FLOOD	INSURA	NCE RATE	MAP (FIRM) I	JEORMATIO	N
	ty Name & (	Community Number		B2. County			B3. State
Borough of Stone Harbor #345323			Cape May			New Jersey	
34. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	FIRM Panel B8. Flood B9 Effective/ Zone(s) Revised Date 05-2017 AE 9		B9. Base (Zone	Flood Elevation(s) AO, use Base Flood Depth)
4009C242	F	10-05-2017	1				7 7
B10. Indicate the s	ource of the	Base Flood Elevation	(REE) da	ta or baso f	lood donth anti-	L	
		Community Dete		Other/So		so in item B9.	
B11 Indicate eleva	tion datum ι	used for BFE in Item E	39: 🔲 NO	GVD 1929	► NAVD 1988	Other/S	Source:
B12 Is the building	located in a	ı Coastal Barrier Reso	auroos C	stam (CDD)	" <i>~</i>		
	TOUGLEU III 8	こししゅうしい ひみけしきしだらく	JULICIES SV	aiom ii Ku	LOFAR OF Cithan.	des Donald I I	

## **ELEVATION CERTIFICATE**

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			FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/o 9913 Sunset Drive	Policy Number.					
City	te ZIP	Code	Company NAIC Number			
Stone Harbor Ne	w Jersey 082	47				
SECTION C - BUILDING EL	EVATION INFORMA	TION (SURVEY RE	EQUIRED)			
C1. Building elevations are based on: Construction	on Drawings* 🔲 Buil	ding Under Constru	uction* X Finished Construction			
*A new Elevation Certificate will be required when o	onstruction of the buildi	ng 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: PID# DP1524	Vertical Datum:					
Indicate elevation datum used for the elevations in i		W.				
☐ NGVD 1929 ☑ NAVD 1988 ☐ Other/ Datum used for building elevations must be the san		BFE.				
			Check the measurement used			
<ul> <li>a) Top of bottom floor (including basement, crawls)</li> </ul>	pace, or enclosure floor	)	5.0 \( \times \) feet \( \times \) meters			
b) Top of the next higher floor			13.9 🕅 feet 🦳 meters			
c) Bottom of the lowest horizontal structural members	er (V Zones only)		11.8  feet meters			
d) Attached garage (top of slab)		40° ° ₹0° 1	5.0 [in feet in meters			
<ul> <li>e) Lowest elevation of machinery or equipment ser (Describe type of equipment and location in Con</li> </ul>	vicing the building nments)		11.0 🗓 feet meters			
f) Lowest adjacent (finished) grade next to building	(LAG)		4.6 S feet meters			
g) Highest adjacent (finished) grade next to buildin	g (HAG)	- A	5.1 🗵 feet 🦳 meters			
h) Lowest adjacent grade at lowest elevation of de- structural support	ck or stairs, including		4.6 feet meters			
SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION						
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by 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 li						
Certifier's Name Steven C. Woodrow	License Number 27514	. Alexander ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	PARTA Security Comments of the			
Title						
Professional Land Surveyor						
Company Name Dante Guzzi engineering Associates						
Address	A CONTRACTOR OF THE PARTY OF TH	T				
418 Stokes Road						
City Medford	State New Jersey	ZIP Code 08055				
Signature Xta ( / ////	Date 08-12-2021	Telephone (609) 654-4440	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)  The lowest equipment visible at the time of the Survey was heater located inside the building. The vents are "SMART VENT" Model# 1540-520 certified to provide 200 SF of flood protection each						
Proj# M2100324.01			1			

## **ELEVATION CERTIFICATE**

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.				FOR INSURANCE C	OMPANY USE	
Building Street Address (including Apt., Unit, Suite 9913 Sunset Drive	e, and/or Bldg. No.) or F	P.O. Route and Box	x No	Policy Number:		
City Stone Harbor	State New Jersey	ZIP Code 08247		Company NAIC Numl	ber	
SECTION E – BUILDIN FOR	G ELEVATION INFO	RMATION (SURVI A (WITHOUT BE	'EY NOT F FE)	EQUIRED)	Popping 23 and California Control of Control	
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 the highest adjacent grade (HAG) and the lov a) Top of bottom floor (including basement.	g and check the approp west adjacent grade (LA	riate boxes to shov AG).	w whether I	the elevation is above	or below	
crawlspace, or enclosure) is b) Top of bottom floor (including basement,			meters			
crawlspace, or enclosure) is  E2. For Building Diagrams 6–9 with permanent fl	ood openings provided		meters 8 and/or 9			
the next higher floor (elevation C2.b in the diagrams) of the building is		feet	[] meters	above or be	elow the HAG	
<ul><li>E3. Attached garage (top of slab) is</li><li>E4. Top of platform of machinery and/or equipme</li></ul>	ent	[_] feet	meters	above or be	slow the HAG.	
servicing the building is  E5. Zone AO only: If no flood depth number is av	ry v . atumatical property and all the control of the passing and		meters			
floodplain management ordinance? Yes	No Unknow	vn. The local offic	cial must ce	rtify this information in	n Section G.	
SECTION F - PROPERTY	OWNER (OR OWNER	'S REPRESENTA	TIVE) CER	TIFICATION	The second secon	
The property owner or owner's authorized represe community-issued BFE) or Zone AO must sign he	entative who completes	Sections A. B. and Fections A. B. and F	t 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	C	ity	State	e ZIF	P Code	
Signature	D	ate	Tele	phone		
Comments				The second secon	Subsection 1994 199	
				f i Obs. ( )	v. e r factorisamentementementementementementementement	
				Check here if a	ittachments !	

#### **ELEVATION CERTIFICATE**

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

Building Street Address (including Apt., Unit, Suite, and/or Bldg, No.) or P O Route and Box No 9913 Sunset Drive  City State				
State   ZIP Code   Company NAIC Number				FOR INSURANCE COMPANY USE
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 68-610. In Puerto Ricc only, enter meters.  G1. A 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 clevant 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 or Zone AO.  G3. The following information (Items G4-G10) is provided for community floodplain management purposes.  G4. Permit Number  G5. Date Permit Issued  G6. Date Certificate of Compliance/Occupancy Issued  B 2 1 2 2 1 9	1	ite, and/or Bldg. No.) or	P O Route and Box No	Policy 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 compled 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. A 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 clevation 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 or Zone AO.  G3. The following information (Items G4–G10) is provided for community floodplain management 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 Improvement  G8. Elevation of as-built lowest floor (including basement)  G9. BFE or (in Zone AO) depth of flooding at the building site:  AE 9	1 '			Company NAIC Number
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complications A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measuremen used in Items G8–G10. In Puerto Rico only, enter meters.  G1.	Stone Harbor	New Jersey	08247	
Sections A. B. C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measuremer used in Items 68–610. In Puerto Rico only, enter meters.  G1. A 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 clevation 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 B or Zone AO.  G3. The following information (Items G4–G10) is provided for community floodplain management 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 Improvement  G8. Elevation of as-built lowest floor (including basement)  of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site: AE 9	SECTIO	N G - COMMUNITY IN	FORMATION (OPTIONA	AL)
engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the clevation 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 E or Zone AO.  G3. The following information (Items G4–G10) is provided for community floodplain management 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 Improvement  G8. Elevation of as-built lowest floor (including basement) of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site:  G10. Community's design flood elevation:  Agree of +2 or 11  If feet meters Datum NAVD 86  G10. Community's design flood elevation:  Agree of +2 or 11  If feet meters Datum NAVD 86  Community Name  Title  Raymond Powdrat Construction of Substantial Improvement  Title  Raymond Powdrat Construction of Substantial Improvement  Telephone  Store Herbor  Community Name  Telephone  Store Herbor  Community Name  Flood Place Transfer  Telephone  Store Herbor  Community Name  Telephone	Sections A, B, C (or E), and G of this Elevation	Certificate. Complete the		
or Zone AO.  G3. The following information (Items G4-G10) is provided for community floodplain management purposes.  G4. Permit Number  G5. Date Permit Issued  G6. Date Certificate of Compliance/Occupancy Issued  G7. This permit has been issued for  G8. Elevation of as-built lowest floor (including basement) of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site:  G9. BFE or (in Zone AO) depth of flooding at the building site:  G10. Community's design flood elevation:  G10. Community Name  Title  Construction  Title  Construction  Telephone  Store  G10. Signature  Date  S2034  Community Name  Telephone	engineer, or architect who is authorize	en from other documenta ad by law to certify eleva	ation that has been signe ation information. (Indicat	ed and sealed by a licensed surveyor. le the source and date of the elevation
G4. Permit Number  G5. Date Permit Issued  G6. Date Certificate of Compliance/Occupancy Issued  G7. This permit has been issued for  New Construction Substantial Improvement  G8. Elevation of as-built lowest floor (including basement)  of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site:  G9. BFE or (in Zone AO) depth of flooding at the building site:  G10. Community's design flood elevation:  AGA F F F F F F F F F F F F F F F F F F		on E for a building locate	ed in Zone A (without a F	EMA-issued or community-issued BFE)
Compliance/Occupancy Issued  19-13564  12 20 19  Substantial Improvement  GR. This permit has been issued for:  New Construction Substantial Improvement  GR. Elevation of as-built lowest floor (including basement) of the building:  GR. Elevation of as-built lowest floor (including basement) of the building:  GR. Elevation of as-built lowest floor (including basement) of the building:  GR. Elevation of as-built lowest floor (including basement) of the building:  GR. Elevation of as-built lowest floor (including basement)  I 3. 9  IX feet   meters   Datum NAVD & Stum NAVD & Stu	G3.  The following information (Items G4–0	310) is provided for com	nmunity floodplain manaç	gement purposes.
G7. This permit has been issued for: New Construction Substantial Improvement  G8. Elevation of as-built lowest floor (including basement) of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site: AE 9 IX feet meters  G10. Community's design flood elevation: Nither of +2 or 11 IZ feet meters  Community's design flood elevation: Nither of +2 or 11 III  Construction Official's Name  Title  Raynord Poudric Construction Official Flood Place Manager  Community Name  Teleptone  Stone Harbor  G09 368-6814  Signature  Date  8 20 34  Comments (including type of equipment and location, per C2(e) if applicable)	G4. Permit Number		d G	
G8. Elevation of as-built lowest floor (including basement) of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site: AE 9 IX feet meters Datum NAVD 88  G10. Community's design flood elevation: Agree of +2cr 11 IZ feet meters Datum NAVD 88  Local Official's Name Title  Raymond Poudric Construction Official Flood Plain Manager  Community Name Telephone  Stone Harbor (609) 368-6814  Signature Date  Raylor of Harbor (1009) 368-6814  Comments (including type of equipment and location, per C2(e) if applicable)	19-13564	12/20/19		8/24/21
of the building:  G9. BFE or (in Zone AO) depth of flooding at the building site: AE 9   X feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community's design flood elevation: A feet   meters Datum NAVD & G10. Community Name   Title   Construction of feet   meters Datum NAVD & G10. Community Name   Title   Datum NAVD & G10. Community Name   Datum NAVD	G7. This permit has been issued for:	New Construction	Substantial Improvement	,
G10. Community's design flood elevation:  Hyper of +2 cr 11  Local Official's Name  Title  Raymond Poudrier Construction Official / Flood Plain Manager  Community Name  Telephone  Stone Hurbor  G09 368-6814  Signature  Date  Raylor  Comments (including type of equipment and location, per C2(e) if applicable)		basement) 13	· 9 X	feet [ ] meters Datum NAVD 88
Local Official's Name  Raymond Poudrier Construction Official / Flood Plain Manager  Community Name  Stone Hurbor  Signature  Date  Blood  Comments (including type of equipment and location, per C2(e) if applicable)	G9. BFE or (in Zone AO) depth of flooding at the	he building site: $AE$	9 IX	feet meters Datum NAVD 88
Raymond Poudrier Construction Official / Flood Plain Manager  Community Name Telephone  Stone Harbor (609) 368-6814  Signature Date  8/20/21  Comments (including type of equipment and location, per C2(e) if applicable)	G10. Community's design flood elevation:	Higher of +2 cr	- <u>                                     </u>	feet meters Datum NAVDE'S
Stone Harbor (609) 368-6814  Signature Date  8/20/24  Comments (including type of equipment and location, per C2(e), if applicable)			ſ	
Stone Harbor (609) 368-6814  Signature Date  8/20/21  Comments (including type of equipment and location, per C2(e) if applicable)	Community Name	instruction Offi	Tolonton	Manager
Comments (including type of equipment and location, per C2(e). if applicable)				
	All 6/h	8/	10/21	
Building is in a Coastel A Zone.	Comments (including type of equipment and locations)	ation, per C2(e). if applic	cable)	
	Building is in a Coas	ital A Zone	<u>.</u> .	
				1
				l
Chark harn if attachm				Check here if attachments



### 10-E1 Evaluation Report

ESR-2074

Reissued February 2021

This report is subject to renewal February 2023

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<sup>3</sup> (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
- w 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 failing 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 /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 m one assembly, and provides 102 square inches (65 806 mm<sup>2</sup>) 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-2inch (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 (16.6 m²) of enclosed area except that the SmartVENT? Stacking Model #1540-51; and PlocdVERT? Stacking Model #1540-52; 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 linal grade or floor and finished exterior grade immediately under each opening.

#### 4.2 Frood 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 teakage rate of less than 0.2 cubic feet per minute per lineal foor (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<sup>e</sup> 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<sup>®</sup> 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<sup>®</sup> 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.

#### 6.6 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<sup>®</sup> 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 into@smartvent.com

TABLE 1-MODEL SIZES

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

For St. 1 i.i.ch = 25.4 mm; 1 square foot =  $m^2$ 

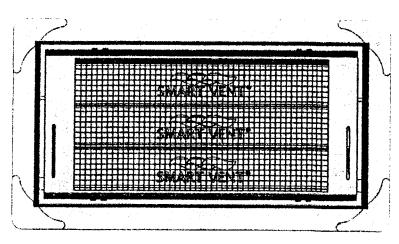


FIGURE 1-SMART VENT: MODEL 1540-510

Note: The V Zone design certificate is not a substitute for the NFIP Elevation Certificate (see Fact Sheet No. 1.4, Lowest Floor Elevation), which is required to certify as-built elevations needed for flood insurance rating.

V ZONE DESIGN CERTIFICATE							
Name Kennedy Residence Policy Number (Insurance Co. Use)	ALDAKA A RESOURCE COCKERSORY A STRANGE AND A						
Building Address of Other Description 9913 Sunset Drive							
Permit No City_ Stone Harbor State_ NJ _ Zip C	Code 08247						
SECTION I: Flood Insurance Rate Map (FIRM) Informat	ion						
Community No. 345323 Panel No. 34009C242 Suffix FIRM Date 10/05/17 FIRM Zone(s)							
SECTION II: Elevation Information Used for Design							
[NOTE: This section documents the elevations/depths used or specified in the design – it does not do and is not equivalent to the as-built elevations required to be submitted during or after construction.]	cument surveyed elevations						
FIRM Base Flood Elevation (BFE)							
2. Community's Design Flood Elevation (DFE)							
3. Elevation of the Bottom of Lowest Horizontal Structure Member							
4. Elevation of Lowest Adjacent Grade							
5. Depth of Anticipated Scour/Erosion used for Foundation Design							
Embedment Depth of Pilings of Foundation Below Lowest Adjacent Grade  * Indicate elevation datum used in 1-4: □ NGVD29 □ NAVD88 □ Other							
SECTION III: V Zone Design Certification Statement I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for							
referenced building and (2) that the design and methods of construction specified to be used are in standards of practice** for meeting the following provisions:	accordance with accepted						
<ul> <li>The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and column the BFE.</li> </ul>	ns) is elevated to or above						
<ul> <li>The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse to the effects of the wind and water loads acting simultaneously on all building components. Water loa associated with the base flood***. Wind loading values used are those required by the applicable State potential for scour and erosion at the foundation has been anticipated for conditions associated with wave action.</li> </ul>	ding values used are those or local building code. The						
SECTION IV: Breakaway Wall Design Certification Statem	ent						
[NOTE. This section must be certified by a registered engineer or architect when breakaway wall resistance of more than 20 psf (0.96 kN/m2) determined using allowable stress design]	s are designed to have a						
I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construct be constructed under the above-referenced building and (2) that the design and methods of construction saccordance with accepted standards of practice** for meeting the following provisions:	tion of breakaway walls to specified to be used are in						
<ul> <li>Breakaway wall collapse shall result from a water load less than that which would occur during the base flood***.</li> <li>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 (see Section III).</li> </ul>							
SECTION V: Certification and Seal							
This certification is to be signed and sealed by a registered professional engineer or architect austructural designs. I certify the V Zone Design Certification Statement (Section III) and the Certification Statement (Section IV, check if applicable).	ne Breakaway Wall Design						
Certifier's Name B. Scott March License Number 24GE05397400	OF NEW MARCH NO. 244GE05397400						
Title Associate Owner & Project Manager Company Name Mulhem & Kulp Structural Engineering, Inc.	1 2 3 3 No (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Address 300 Brookside Avenue, Building 4	= 24GE05397400: ₩						
City Ambler State PA Zip Code 19002	SONAL ETTIL						
08/13/21 - (215) 646-8001	","ONAL EN						

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