U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

P# 120 666 N324 8/10/21

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

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

menter and hid	SEC	TION A - PROPERT	Y INFORMATION		FOR INSURANCE COMPANY
A1. Building Own RIVER COUNTR		LC		in a second	Policy Number:
A2. Building Stre Box No. L149 BROOKGA	1. E. 1. 1. 1.	cluding Apt., Unit, Sui	ite, and/or Bldg. No.) o	or P.O. Route and	Company NAIC Number:
City MYRTLE BE	ACH		State South C	Carolina	ZIP Code 29579
		nd Block Numbers, T OOK S/D (PIN 427-0	ax Parcel Number, Le 5-04-0003)	egal Description, e	tc.)
A4. Building Use	e (e.g., Resider	ntial, Non-Residential,	Addition, Accessory,	etc.) RESIDEN	ITIAL
A5. Latitude/Lon	gitude: Lat. <u>3</u>	3°42'52.8294"N	Long. 78°57'31.3434	4"W Horizonta	al Datum: 🗌 NAD 1927 🔀 NAD 198
A6. Attach at lea	st 2 photograp	hs of the building if th	e Certificate is being	used to obtain floo	od insurance.
A7. Building Diag	gram Number	<u>1B</u>			
A8. For a building	g with a crawls	space or enclosure(s)			
a) Square for	ootage of craw	lspace or enclosure(s)	N/A sq ft	
b) Number o	f permanent flo	ood openings in the c	rawlspace or enclosu	re(s) within 1.0 foc	t above adjacent grade N/A
c) Total net	area of flood o	penings in A8.b	N/A sq i	n	
d) Engineer	ed flood openir	ngs? 🗌 Yes 🗶	No		
A9. For a building	with an attach	ned garage:		2 8. 2	
		AN IS A STATE OF	396.00 sat	ft	
a) Square fo	otage of attact	ned garage	396.00 sq t		iacent grade 2
a) Square fo b) Number o	otage of attach f permanent flo	ned garage ood openings in the a	ttached garage within	1.0 foot above ad	
a) Square forb) Number ofc) Total net a	otage of attack of permanent fle area of flood op	ned garage ood openings in the a penings in A9.b	ALC: NOT	1.0 foot above ad	jacent grade <u>2</u> TO NOTES
a) Square fo b) Number o c) Total net a	otage of attach f permanent flo	ned garage ood openings in the a penings in A9.b	ttached garage within	1.0 foot above ad	
a) Square forb) Number ofc) Total net a	otage of attack of permanent flo area of flood op ed flood openir	ned garage ood openings in the a penings in A9.b ngs? X Yes D	ttached garage within 400.00 se	1.0 foot above ad q in REFER	TO NOTES
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 b) Number of c) Total net a d) Engineera B1. NFIP Communeration HORRY COUNT B4. Map/Panel 	otage of attack of permanent flo area of flood op ed flood openir SI unity Name & 0	hed garage ood openings in the a penings in A9.b ngs? X Yes ECTION B – FLOOD Community Number B6. FIRM Index	ttached garage within 400.00 se No INSURANCE RATE B2. County HORRY B7. FIRM Panel	1.0 foot above ad q in REFER MAP (FIRM) IN v Name B8. Flood	TO NOTES FORMATION B3. State South Carolina B9. Base Flood Elevation(s)
 a) Square for b) Number of c) Total net and d) Engineered B1. NFIP Community HORRY COUNT B4. Map/Panel Number	otage of attack of permanent fle area of flood op ed flood openir SI unity Name & O Y 450104	ned garage ood openings in the a penings in A9.b ngs? ⊠ Yes □ ECTION B – FLOOD Community Number B6. FIRM Index Date	ttached garage within 400.00 se No INSURANCE RATE B2. County HORRY B7. FIRM Panel Effective/ Revised Date	1.0 foot above ad q in REFER MAP (FIRM) IN v Name B8. Flood Zone(s)	TO NOTES FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth
 a) Square for b) Number of c) Total net and d) Engineered B1. NFIP Community HORRY COUNT B4. Map/Panel Number	otage of attack of permanent fle area of flood op ed flood openir SI unity Name & O Y 450104	hed garage ood openings in the a penings in A9.b ngs? X Yes ECTION B – FLOOD Community Number B6. FIRM Index	ttached garage within 400.00 se No INSURANCE RATE B2. County HORRY B7. FIRM Panel Effective/	1.0 foot above ad q in REFER MAP (FIRM) IN v Name B8. Flood	TO NOTES FORMATION B3. State South Carolina B9. Base Flood Elevation(s)
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 a) Square for b) Number of c) Total net and d) Engineered B1. NFIP Community HORRY COUNT 4. Map/Panel Number 5051C0679 B10. Indicate the	otage of attach of permanent fle area of flood op ed flood openir SI unity Name & O Y 450104 B5. Suffix H e source of the	bed garage bod openings in the appenings in A9.b ngs? Yes Community Number B6. FIRM Index Date 09-17-2003 Base Flood Elevation	ttached garage within 400.00 so No INSURANCE RATE B2. County HORRY B7. FIRM Panel Effective/ Revised Date 08-23-1999	1.0 foot above ad q in REFER MAP (FIRM) INI v Name B8. Flood Zone(s) AE	TO NOTES FORMATION B3. State South Carolina B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth 14.5
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Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. F L149 BROOKGATE DRIVE State ZIP Code C City State ZIP Code C MYRTLE BEACH South Carolina 29579 C SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REC C1. Building elevations are based on: Construction Drawings* Building Under Construct *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/AI Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto I Benchmark Utilized: SCVRS Vertical Datum: NGVD 29 Indicate elevation datum used for the elevations in items a) through h) below. Xim NGVD 1929 NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. REV. 08/10/20 a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	MB No. 1660-0008 xpiration Date: November 30, 2022	
L149 BROOKGATE DRIVE State ZIP Code City South Carolina 29579 SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REC C1. Building elevations are based on: □ Construction Drawings* □ Building Under Construct *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/AI, Complete Items C2. a–h below according to the building diagram specified in Item A7. In Puertol Benchmark Utilized: SCVRS Vertical Datum: NG/D 29 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. REV. 08/10/20 a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	OR INSURANCE COMPANY USE	
MYRTLE BEACH South Carolina 29579 SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REC C1. Building elevations are based on: □ Construction Drawings* □ Building Under Construct *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, ARA, ARAI Complete tems C2. – helow according to the building diagrams specified in Item A7. In Puerto Benchmark Utilized: SCVRS Vertical Datum: NGVD 29 Indicate elevation datum used for the elevations in items a) through h) below.	Policy Number:	
C1. Building elevations are based on: □ Construction Drawings* □ Building Under Construct *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/AI Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto D Benchmark Utilized: SCVRS Vertical Datum: NGVD 29 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. REV. 08/10/20 a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	Company NAIC Number	
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c) Bottom of the lowest horizontal structural member (V Zones only) d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by la location that the information on this Certificate represents my best efforts to interpret the data available statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? ⊠ Yes □ No Certifier's Name License Number MICHAEL S. CULLER, III 29114 Title PRESIDENT Company Name Culler LAND SURVEYING III, INC Address 30uth Carolina 29575 Signature Date Telephone Gity State 21P Code Signature Date Telephone Mathum 08-23-2021 (B43) 238-2333 Copy all pages of t	e, Ar/A1–A30, Ar/AH, Ar/AO.	
d) Attached garage (top of slab)	N/A feet meters	
e) have by the end of	N/A X feet meters	
(Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by la locatify that the information on this Certificate represents my best efforts to interpret the data available statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? ☑ Yes □ No Certifier's Name License Number MICHAEL S. CULLER, III 29114 Title PRESIDENT Company Name ULLER LAND SURVEYING III, INC Address 1010 5TH AVE NW EXT. City State ZIP Code SurFSIDE BEACH Date Telephone Signature Date Telephone 08-23-2021 (843) 238-2333 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	13.7 X feet meters	
g) Highest adjacent (finished) grade next to building (HAG)	15.6 🗍 feet 🔲 meters	
a) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by la locatify that the information on this Certificate represents my best efforts to interpret the data available statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. Were latitude and longitude in Section A provided by a licensed land surveyor? ☑ Yes □ No Certifier's Name License Number MICHAEL S. CULLER, III 29114 Title PRESIDENT Company Name CULLER LAND SURVEYING III, INC Address 1010 5TH AVE NW EXT. City State ZIP Code SURFSIDE BEACH Date Telephone Signature Date Telephone Oge 232-2021 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	12.6 X feet I meters	
structural support SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by late in certify that the information on this Certificate represents my best efforts to interpret the data available 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? Image: Yes Image: Y	13.2 X feet meters	
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by la land surveyor, engineer, or architect authorized by la land 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? Image: Yes Image:	N/A feet meters	
I certify that the information on this Certificate represents my best efforts to interpret the data available 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? Image: Yes Image:	ATION	
MICHAEL S. CULLER, III 29114 Title PRESIDENT Company Name CULLER LAND SURVEYING III, INC Address 1010 5TH AVE NW EXT. City State ZIP Code SURFSIDE BEACH Date 29575 Signature Date Telephone MMM J. M. M. T. 08-23-2021 Telephone Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	aw to certify elevation information. <i>I. I understand that any false</i> Check here if attachments.	
PRESIDENT Company Name CULLER LAND SURVEYING III, INC Address 1010 5TH AVE NW EXT. City State SURFSIDE BEACH Signature Date Observed this Elevation Certificate and all attachments for (1) community official, (2) insurance age		
CULLER LAND SURVEYING III, INC Address 1010 5TH AVE NW EXT. City State ZIP Code SURFSIDE BEACH South Carolina 29575 Signature Date Telephone Mahael A. Caller III. 08-23-2021 (843) 238-2333 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	Place	
1010 5TH AVE NW EXT. City SURFSIDE BEACH State South Carolina ZIP Code 29575 Signature Date 08-23-2021 Telephone (843) 238-2333 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	OF Place	
SURFSIDE BEACH South Carolina 29575 Signature Date Telephone Muchae Jean 08-23-2021 (843) 238-2333 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	Here S	
Muchue f. Cubler III 08-23-2021 (843) 238-2333 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance age	OF AUTHOUND	
	Ext.	
Comments (including type of equipment and location, per C2(e), if applicable)	gent/company, and (3) building owner	
ITEM C2-E REFERS TO FLOOR LEVEL OF HVAC SYSTEM NOTE THE TWO ENGINEERED VENTS ARE SMART VENT MODEL 1540-570		

ELEVATION CERTIFICATE			OMB No. 166 Expiration Da	50-0008 ate: November 30, 2022
MPORTANT: In these spaces, copy	the corresponding information f	from Section A.	FOR INSUR	ANCE COMPANY USE
Building Street Address (including Ap L149 BROOKGATE DRIVE	t., Unit, Suite, and/or Bldg. No.) or l	P.O. Route and Box No.	Policy Numb	per:
City MYRTLE BEACH	State South Carolina	ZIP Code 29579	Company N	AIC Number
SECTION E	- BUILDING ELEVATION INFO FOR ZONE AO AND ZONE	RMATION (SURVEY N E A (WITHOUT BFE)	OT REQUIRED)	
For Zones AO and A (without BFE), c complete Sections A, B,and C. For It enter meters.	complete Items E1–E5. If the Certificer oms E1–E4, use natural grade, if av	cate is intended to suppo vailable. Check the meas	ort a LOMA or LO surement used. In	MR-F request, Puerto Rico only,
a) Top of bottom floor (including	6) and the lowest adjacent grade (L/	AG).		
crawlspace, or enclosure) is b) Top of bottom floor (including	basement,		27	or below the HAG
crawlspace, or enclosure) is E2. For Building Diagrams 6–9 with	permanent flood openings provided	Lin Section A Items 8 and		or \square below the LAG.
the next higher floor (elevation C the diagrams) of the building is				or \Box below the HAG.
E3. Attached garage (top of slab) is	Ac	feet _ m	eters above	or below the HAG.
E4. Top of platform of machinery and servicing the building is	J/or equipment	[feet] m	eters	or below the HAG.
A Section of the sect	must sign here. The statements in S	R'S REPRESENTATIVE) CERTIFICATIO	N a FEMA-issued or
		24.	Otata	ZID Cada
Address		City	State	ZIP Code
Signature	C	Date	Telephone	
Comments				
		1.	Cher	k hore if ettechmente

mation from Section A. No.) or P.O. Route and Box ZIP Code rolina 29579 NITY INFORMATION (OPTI nister the community's flood uplete the applicable item(s) cumentation that has been ify elevation information. (In ng located in Zone A (without tor community floodplain methods	No. Policy Num Company N ONAL) plain management or and sign below. Che signed and sealed by dicate the source and the a FEMA-issued or of	NAIC Number rdinance can complete ck the measurement r a licensed surveyor, d date of the elevation
ZIP Code 29579 NITY INFORMATION (OPTI nister the community's flood aplete the applicable item(s) cumentation that has been ify elevation information. (In ng located in Zone A (withou	Company f ONAL) plain management or and sign below. Che signed and sealed by dicate the source and ta FEMA-issued or o	NAIC Number rdinance can complete ck the measurement r a licensed surveyor, d date of the elevation
rolina 29579 NITY INFORMATION (OPTI hister the community's flood aplete the applicable item(s) cumentation that has been ify elevation information. (In ang located in Zone A (withou	ONAL) plain management or and sign below. Che signed and sealed by dicate the source and the a FEMA-issued or o	rdinance can complete ck the measurement r a licensed surveyor, d date of the elevation
nister the community's flood aplete the applicable item(s) cumentation that has been ify elevation information. (In ng located in Zone A (withou	plain management or and sign below. Che signed and sealed by dicate the source and the FEMA-issued or c	ck the measurement a licensed surveyor, d date of the elevation
nister the community's flood aplete the applicable item(s) cumentation that has been ify elevation information. (In ng located in Zone A (withou	plain management or and sign below. Che signed and sealed by dicate the source and the FEMA-issued or c	ck the measurement a licensed surveyor, d date of the elevation
ify elevation information. (In ng located in Zone A (withou	dicate the source and	d date of the elevation
		community-issued BFE)
l for community floodplain m	anagement purposes	
	andgement purpose.	S.
nit Issued	G6. Date Certifica Compliance/0	ate of Occupancy Issued
ion 🗌 Substantial Improve	ment	
	feet meters	Datum
	feet meters	Datum
	feet meters	Datum
Title		
Telephone		
Date		
, if applicable)		
		heck here if attachments.
1	tion Substantial Improve Title Telephone	tion Substantial Improvement

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. L149 BROOKGATE DRIVE			FOR INSURANCE COMPANY USE	
			Policy Number:	
City	State	ZIP Code	Company NAIC Number	
MYRTLE BEACH	South Carolina	29579		

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 Caption REAR VIEW -07/20/2021

Clear Photo Three

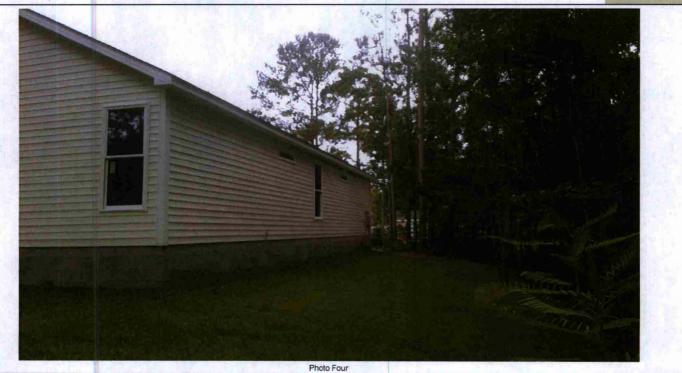


Photo Four Caption LEFT SIDE VIEW - 07/20/2021

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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 A L149 BROOKGATE DRIVE	pt., Unit, Suite, and/or Bldg. No.) or F	P.O. Route and Box No.	Policy Number:	
City	State	ZIP Code	Company NAIC Number	
MYRTLE BEACH	South Carolina	29579	1	

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 Caption FRONT VIEW - 07/20/2021 **Clear Photo One**



Photo Two Caption RIGHT SIDE VIEW - 07/20/2021

Clear Photo Two

FEMA Form 086-0-33 (12/19)



ICC-ES Evaluation Report

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

ESR-2074

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

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)[†]

¹The 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.

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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

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- 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

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	

TABLE 1-MODEL SIZES

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



FIGURE 1-SMART VENT: MODEL 1540-510