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

OMB No. 1660-0008 Expiration Date: November 30, 2018

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.

oop) an pager or ma	SEC.	TION A - PROPERTY	/ INFOR	MATION			FOR INSUR	ANCE COMPANY USE
A1. Building Owner's Name						Policy Numb	er:	
Timothy Fisher		•						·
Box No.		cluding Apt., Unit, Suit	te, and/o	r Bldg. No.) o	r P.O. Rou	te and	Company N	AIC Number:
406 North Cambrid	ge Avenue						ZIP Code	
City City of Ventnor	•			State New Jer	· · · · · · · · · · · · · · · · · · ·		08406	
A3. Property Desc Block 264 Lot 15	ription (Lot a	nd Block Numbers, Ta	ax Parcel	Number, Leg	gal Descrip	tion, etc.)		
A4. Building Use (e.g., Residen	tial, Non-Residential,	Addition	, Accessory,	etc.) Re	sidential		
A5. Latitude/Longit				4°29'19.8"		rizontal Datu	m: 🔲 NAD 1	927 🗵 NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being u	sed to obta	ain flood insu	rance.	
A7. Building Diagra	m Number	8						
A8. For a building	with a crawls	pace or enclosure(s):						
a) Square foot	tage of crawl	space or enclosure(s)		1	202.00 sq	ft		
b) Number of p	ermanent flo	od openings in the cr	awlspace	e or enclosure	e(s) within	1.0 foot abov	e adjacent gra	de <u>7</u>
c) Total net are	ea of flood op	penings in A8.b	1	400.00 ·sq in				
d) Engineered	flood openin	gs? ⊠ Yes 🔲 N	, 10	•				
A9. For a building v	vith an attach	ed garage:	d.					
a) Square foot				N/A sq ft				·
, ,	_	od openings in the at	tached g	arage within	1.0 foot abo	ove adjacent	grade N/A	·
c) Total net are				N/A sq				
d) Engineered			10					
a) Liigiiloo, ou								
	SE	CTION B - FLOOD I	NSURA	NCE RATE	MAP (FIR	M) INFORM	ATION	
B1. NFIP Communi City of Ventnor City		ommunity Number	•	B2. County Atlantic Cou			· .	B3. State New Jersey
	B5. Suffix	B6. FIRM Index	B7 FIE	I RM Panel	B8. Flood	B9	Base Flood El	evation(s)
B4. Map/Panel Number	DO. SUIIIX	Date	Effe	ective/ vised Date	Zone(s)		(Zone AO, use	Base Flood Depth)
345326 0001	В	06-18-1971	09-15-1		A8	10'		
		Base Flood Elevation				entered in Ite	m B9:	
FIS Profile	⊠ FIRM	Community Deter	mined [Other/Sou	rce:			
B11. Indicate eleva	ition datum u	sed for BFE in Item B	9: 🗵 N	GVD 1929	NAVD '	1988 🔲 C	ther/Source: _	
B12. Is the building	located in a	Coastal Barrier Reso	urces Sy	stem (CBRS	area or O	therwise Pro	tected Area (C	PA)? ☐ Yes ⊠ No
Designation I				☐ OPA		,]

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the correspon	ding information from Sec	tion A.			COMPANY USE
Building Street Address (including Apt., Unit, Suite, ar 406 North Cambridge Avenue	nd/or Bldg. No.) or P.O. Rou	e and Box No.	·	Number:	
	State ZIP	Code	Compa	ny NAIC N	umber
City of VentnorCity	New Jersey 0840	06			
SECTION C - BUILDING	ELEVATION INFORMAT	ION (SURVEY RE	QUIRE	:D)	·
		ding Under Constru	ction*	X Finish	ed Construction
*A new Elevation Certificate will be required wh	en construction of the building	ng is complete.	AE AD	A A A A A A	DIALL ARIAO
C2. Elevations – Zones A1–A30, AE, AH, A (with B Complete Items C2.a–h below according to the Benchmark Utilized: 5.77' (Corpscon 6.0.1)	FE), VE, V1–V30, V (with BI building diagram specified i Vertical Datum:	II HOIII / U. III . Go.	o Rico o	nly, enter r	neters.
Indicate elevation datum used for the elevations					
Indicate elevation datum used for the elevation					
Datum used for building elevations must be the	same as that used for the B	FE.		1.44	mort upod
	•			eck the me	asurement used. meters
 a) Top of bottom floor (including basement, cra 	awispace, or enclosure floor)		6.83		= 1
b) Top of the next higher floor			13.47	x feet	meters
c) Bottom of the lowest horizontal structural me	ember (V Zones only)		N/A	feet	meters
d) Attached garage (top of slab)	,		<u>N/A</u>	feet	☐ meters
e) Lowest elevation of machinery or equipmen (Describe type of equipment and location in	t servicing the building Comments)		13.81		meters
			6.72	feet	meters
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		6.89		meters
g) Highest adjacent (finished) grade next to buth) Lowest adjacent grade at lowest elevation of			6.47	feet	meters
structural support					
SECTION D - SURVE	OR, ENGINEER, OR AR	CHITECT CERTIF	ICATIO	N	4
This certification is to be signed and sealed by a lar I certify that the information on this Certificate repre statement may be punishable by fine or imprisonment	nd surveyor, engineer, or arc sents my best efforts to inte ent under 18 U.S. Code, Sec	tion 1001.			
Were latitude and longitude in Section A provided b	y a licensed land surveyor?	⊠Yes □ No	<u> </u>	Check her	e if attachments.
Certifier's Name	License Number 24GS04132900				·
Marc J. Cifone	240304132900		-		
Title President				p	ace
Company Name Lakeland Surveying, Inc.	•.			5	ieal 💮
Address			7	-	lere
117 Hibernia Avenue					
City Rockaway	State New Jersey	ZIP Code 07866			
Signature / /	Date 08-13-2019	Telephone (973) 625-5670	Ext.		
Copy all pages of this Elevation Certificate and all atta		fficial. (2) insurance	agent/c	ompany, ar	nd (3) building owner.
Copy all pages of this Elevation Certificate and all attended to the Comments (including type of equipment and location					
			- / DEF /	3 1147/1700	2) - 0 24' (NGVD29)
Atlantic County, NJ - Preliminary FIRM Map No. 34 C2. e) AC Unit Smart Vent Model No. 1540-510	001C0451G revised Januar	/ 30, 2015 Zone At	:/BF&	1 NAVDoc) - 9.24 (NOVD25)
\bigcup					<u>.</u>

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy	the correspond	ing information	from Section	on A.	FOR INSURA	NCE COMPANY USE
Building Street Address (including Ap	ot., Unit, Suite, and	d/or Bldg. No.) or	r P.O. Route	and Box No.	Policy Number	:
406 North Cambridge Avenue			ZIP Co	- d-	Company NAI	C Number
City		State			Company 14/4	5 (tainbo)
City of VentnorCity		New Jersey	08406		<u> </u>	
		E AO AND ZOI	VEA (WITH	OUI BEE)		
For Zones AO and A (without BFE), complete Sections A, B,and C. For Ite enter meters.	ems E1-E4, use	natural grade, il a	available. Of	ICOR WIO THOUGH		
E1. Provide elevation information for the highest adjacent grade (HAC	ف) and the lowest	d check the appro adjacent grade (opriate boxe: LAG).	s to show wheth	er the elevation i	s above or below
a) Top of bottom floor (including crawlspace, or enclosure) is				☐ feet ☐ met	ers 🔲 above o	or Delow the HAG.
 b) Top of bottom floor (including crawlspace, or enclosure) is 	•			☐ feet ☐ mete		or Delow the LAG.
E2. For Building Diagrams 6–9 with	nermanent flood	openinas provide	ed in Section	A Items 8 and/o	or 9 (see pages 1	-2 of Instructions),
the next higher floor (elevation of the diagrams) of the building is	22.b in			feet met	ers 🔲 above o	or Delow the HAG.
E3. Attached garage (top of slab) is				☐ feet ☐ met	ers above o	orbelow the HAG.
E4. Top of platform of machinery an servicing the building is	d/or equipment		·	☐ feet ☐ met	ers 🔲 above o	or below the HAG.
E5. Zone AO only: If no flood depth floodplain management ordinan	number is availab	ole, is the top of t ☐ No ☐ Unkr	he bottom flo	oor elevated in a local official mus	accordance with t at certify this infor	he community's mation in Section G.
		IMER (OR OWN	ER'S REPRI	ESENTATIVE) (CERTIFICATION	
SECTION F -	PROPERTY OW	HEIT (OIT OTHE				
			041	A D and E for 3	Zone A (without a	FFMA-issued or
The property owner or owner's authocommunity-issued BFE) or Zone AO	orized representat must sign here.	tive who complet The statements i	041	A D and E for 3	Zone A (without a	FFMA-issued or
	orized representat must sign here.	tive who complet The statements i	041	A, B, and E for A , B, and E are o	Zone A (without a orrect to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO	orized representat must sign here.	tive who complet The statements i	041	A, B, and E for A , B, and E are o	Zone A (without a	FFMA-issued or
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A	A, B, and E for A, B, and E are o	Zone A (without a orrect to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authocommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best	FEMA-issued or of my knowledge.
The property owner or owner's authorommunity-issued BFE) or Zone AO Property Owner or Owner's Authorize Address Signature	orized representat must sign here.	tive who complet The statements i	es Sections n Sections A City	A, B, and E for A, B, and E are o	Zone A (without a correct to the best State Telephone	FEMA-issued or of my knowledge.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corre	enonding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Su	ite and/or Rida No \ or	P.O. Route and Box No.	Policy Number:
406 North Cambridge Avenue	ille, allafor blag. 140./ or	1 ,O, Hould and Dox Ho.	
· · · · · · · · · · · · · · · · · · ·	State	ZIP Code	Company NAIC Number
City City of VentnorCity	New Jersey	08406	
•		ORMATION (OPTIONAL	\
The local official who is authorized by law or ord Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, ent	certificate, Complete the er meters.	e applicable itenits) and s	gil bolow. Chook ale medelalam
G1. The information in Section C was take engineer, or architect who is authorized data in the Comments area below.)	ed by law to certify eleva	tion information. (indicate	the source and date of the sie tale.
or Zone AO.			MA-issued or community-issued BFE)
G3. The following information (Items G4—	G10) is provided for com	munity floodplain manage	ement purposes.
G4. Permit Number	G5. Date Permit Issue	d G6	. Date Certificate of Compliance/Occupancy Issued
OT This was been included for	New Construction [7] S	Substantial Improvement	
G7. This permit has been issued for:			
G8. Elevation of as-built lowest floor (including of the building:	p basement)	fe	eet
G9. BFE or (in Zone AO) depth of flooding at t	he building site:	fe	eet meters Datum
G10. Community's design flood elevation:		 f	eet meters Datum
Local Official's Name		Title C.F.W	
Community Name		Telephone	
Vantual		609	323-79BI
Signature		Date	
Signature			-10
		7-26	
Comments (including type of equipment and loc	cation, per C2(e), if apple	cable)	
		•	,
	•	•	
·			
		•	
•			
·		•	•
			Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE	See Instructions	for Item A6.	Expiration Date: November 30, 2018	
IMPORTANT: In these spaces, copy the cor	PORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE Control of the cont			
Building Street Address (including Apt., Unit, 5 406 North Cambridge Avenue				
City City of VentnorCity	State New Jersey	ZIP Code 08406	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

FRONT LEFT - August 12, 2019 Photo One Caption

Clear Photo One

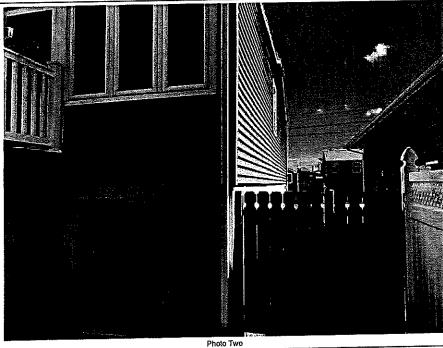


Photo Two Caption REAR LEFT - August 12, 2019

Clear Photo Two

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE FOR INSURANCE COMPANY USE 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. Policy Number: 406 North Cambridge Avenue

Company NAIC Number ZIP Code State 08406 New Jersey City of VentnorCity

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.

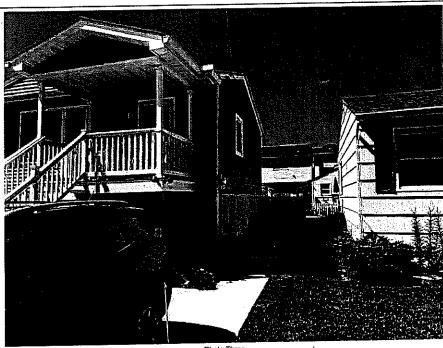


Photo Three

Photo Three Caption FRONT RIGHT - August 12, 2019

Clear Photo Three

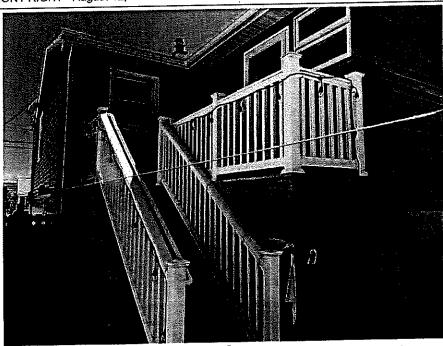
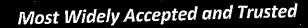


Photo Four

Photo Four Caption REAR RIGHT - August 12, 2019

Clear Photo Four





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

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" ICC INTERNATIONAL CODE COUNCIL

A Subsidiary of G

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the 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 $\frac{1}{4}$ -inch-by- $\frac{1}{4}$ -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-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 (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

MODEL MARK	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
MODEL NAME		15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT®	1540-520	15 ³ / ₄ " × 7 ³ / ₄ "	200
SmartVENT®	1540-510		
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door		14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570		200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	
	1540-511	16" X 16"	400
SmartVENT [®] Stacker		16" X 16"	400
FloodVent® Stacker	1540-521	10 × 10	

For SI: 1 inch = 25.4 mm; 1 square foot = m2

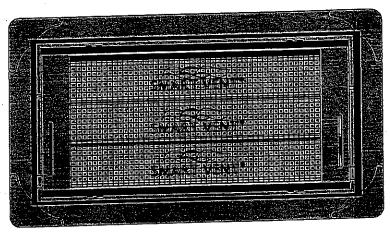


FIGURE 1-SMART VENT: MODEL 1540-510

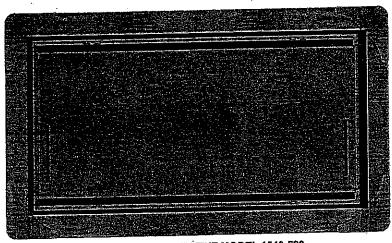


FIGURE 2—SMART VENT MODEL 1540-520

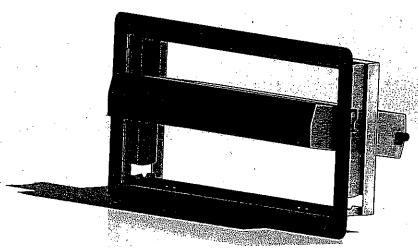


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

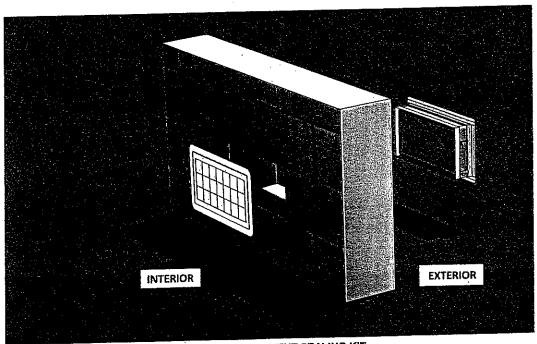


FIGURE 4—FLOOD VENT SEALING KIT



ESR-2074 CBC and CRC Supplement

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 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

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.



ESR-2074 FBC Supplement

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 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.