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.

		TION A - PROPERTY	INFOF	MATION		FOR INSUI	RANCE COMPANY USE
A1. Building Owne						Policy Num	iber:
Mungo Home							
A2. Building Stree Box No. 3040 Kingswe		cluding Apt., Unit, Suite	i, and/c	or Bldg. No.) or P.O	. Route and	Company N	NAIC Number:
City	***************************************		····	State		ZIP Code	
Richmond Hil				Georgia		31324	
•		nd Block Numbers, Tax 2 - Phase 5, 20th G.M.				007-379 (S	MB 673, Pages 7-8)
A4. Building Use (e.g., Residen	tial, Non-Residential, A	\dditior	ı, Accessory, etc.)	Residential		
A5. Latitude/Longi	tude: Lat3	31.88180	Long.	-81.24720	Horizontal Datum	:	1927 X NAD 1983
A6. Attach at least	2 photograph	ns of the building if the	Certific	cate is being used to	_		, ,
A7. Building Diagra		1B					
A8. For a building	with a crawls _i	pace or enclosure(s):					
a) Square foo	tage of crawls	space or enclosure(s)		N/A sq ft			
b) Number of	permanent flo	ood openings in the cra	wispac	e or enclosure(s) w	vithin 1.0 foot above	adjacent gr	ade N/A
		enings in A8.b N/		sq in		•	
d) Engineered	flood openin	gs? ☐ Yes 🛛 No					
A9. For a building v			•				
		ed garage 432		sq ft			
		ood openings in the atta	ached (garage within 1,0 fo	oot above adiacent d	rade	4
		enings in A9.b 80		sq in			
d) Engineered				_ uq			
*/ <u>-</u>							
	SE	CTION B - FLOOD IN	ISURA	NCE RATE MAP	(FIRM) INFORMAT	rion	
B1, NFIP Communi	ty Name & Co	ommunity Number		B2. County Name	,		B3. State
Bryan C	County 130	0016		E	Bryan		Georgia
B4. Map/Panel Number	B5, Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zor	se Flood Elevation(s) ne AO, use Base od Depth)
13029C0325	С	May 5, 2014	М	arch 2, 2009	AE		13.0'
B10. Indicate the se	ource of the E	Base Flood Elevation (3FE) d	ata or base flood de	epth entered in Item	B9;	
☐ FIS Profile	☐ FIRM [Community Determ	ined [Other/Source: _			
B11. Indicate eleva	tion datum us	sed for BFE in Item B9:	: 🔲 N	GVD 1929 🔀 NA	\VD 1988	er/Source:	
B12. Is the building	located in a	Coastal Barrier Resou	rces S	/stem (CBRS) area	or Otherwise Protec	ted Area (C	DPA)? ☐ Yes ☒ No
Designation D				□ OPA			ли, _П тоо Д но
Ü	***************************************		,5110				

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspon	nding information	from Secti	on A.		FOR INSU	RANC	E COMPANY I	USE
Building Street Address (including Apt., Unit, Suite, a	and/or Bldg. No.) o	r P.O. Route	and Box No	э.	Policy Nun	nber:		
3040 Kingswood Drive								
City	State	ZIP C			Company	NAIC I	Number	
Richmond Hill	Georgia	3132	4					
SECTION C - BUILDIN	G ELEVATION IN	IFORMATION	ON (SURVE	Y RE	EQUIRED)			
C1. Building elevations are based on: Const	truction Drawings*	☐ Buildi	ng Under Co	onstru	ction*	Finish	ned Constructio	n
*A new Elevation Certificate will be required wl	hen construction of	f the building	j is complete	€.		!		
C2. Elevations – Zones A1–A30, AE, AH, A (with B	BFE), VE, V1-V30,	V (with BFE	E), AR, AR/A	, AR/	AE, AR/A1-	A30, A	AR/AH, AR/AO.	
Complete Items C2.a–h below according to the Benchmark Utilized: Local		specified in al Datum: _	NAVD 88		o Rico only,	enter	meters.	
Indicate elevation datum used for the elevation	is in items a) throu	gh h) below.						
☐ NGVD 1929 ☐ NAVD 1988 ☐ O								_
Datum used for building elevations must be the	e same as that use	d for the BF	E.		Check t	the me	asurement use	hd
a) Top of bottom floor (including basement, cr	awlspace, or enclo	sure floor)	14	3		feet	meters	u.
b) Top of the next higher floor		_	24	8	\(\overline{\times}	feet	meters	
c) Bottom of the lowest horizontal structural m	ember (V Zones o	nly) _	N/A		_	feet	☐ meters	
d) Attached garage (top of slab)	1		12	5	🖂	feet	meters	
e) Lowest elevation of machinery or equipmer (Describe type of equipment and location in	nt servicing the bui	lding _	14	5		feet	meters	
f) Lowest adjacent (finished) grade next to bu	•		12	1	M	feet	☐ meters	
g) Highest adjacent (finished) grade next to bu			12	3		feet	☐ meters	
h) Lowest adjacent grade at lowest elevation of structural support		cluding _	N/A			feet	meters	
SECTION D - SURVE	VOR ENGINEER	OB ABCL	IITECT CEI	DTIEL	CATION			
This certification is to be signed and sealed by a lar I certify that the information on this Certificate represtatement may be punishable by fine or imprisonment.	nd survevor, engine	eer. or archit	ect authoriz	ed by	law to certi	fy eleverstand t	ation information hat any false	on.
Were latitude and longitude in Section A provided b		The second second second second	Yes 🗆				e if attachments	3.
Certifier's Name	License Nu	ımber						
Terry M. Coleman	GA# 248	6			,			
Title						OF	110 PO	
Professional Surveyor					_	RE	GISTERE	1
Company Name Coleman Company Inc.					1 114	No	2446 +	1
Address						ENHE		
17 Park of Commerce Boulevard, Suite 201					1	200	COLEMP	
City	State		ZIP Code		\dashv \nearrow	Cuch	COL	
Savannah	GA		31405					
Signature	7/11/17	; -	Telephone		-			
Copy all pages of this Elevation Certificate and all atta	chments for (1) cor	nmunity offic	ial, (2) insura	ance a	gent/compa	ny, and	d (3) building ow	vner.
Comments (including type of equipment and location					V → 00-30 photo houses (10 may 20 ma			
Section A9d: Garage vented by (4) engineered Section B9: A 1' (one foot) freeboard is required Section C2: Benchmark utilized was from Subd Section C2e: Lowest elevation of machinery se	vent. Smart Ven d by the Bryan C livision Map Bool	it Inc, mode ounty Floor k 673, Page	d Damage es 7-8.	Preve		inance	э.	
	120							

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the correspond					FOR INSURAN	CE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and 3040 Kingswood Drive	d/or Bldg. No.)	or P.O. Rou	te and Box	k No.	Policy Number:	
City S Richmond Hill	State Georgia		Code 324		Company NAIC	Number
SECTION E – BUILDING EL FOR ZONI	EVATION INF E AO AND ZO				REQUIRED)	
For Zones AO and A (without BFE), complete Items E1 complete Sections A, B,and C. For Items E1–E4, use n enter meters.						
E1. Provide elevation information for the following and the highest adjacent grade (HAG) and the lowest and the highest adjacent grade (HAG) and the lowest and the highest elevation floor (including basement).			es to shov	v whether	the elevation is	above or below
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is b) Top of bottom floor (including basement, 			feet	meter	s above or	below the HAG.
crawlspace, or enclosure) is			_	meter:	_	below the LAG.
E2. For Building Diagrams 6–9 with permanent flood o the next higher floor (elevation C2.b in the diagrams) of the building is	penings provid	led in Sectio	n A Items	8 and/or ☐ meter	• -	2 of Instructions), ☐ below the HAG.
E3. Attached garage (top of slab) is			feet	meter	_	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 floodplain management ordinance? Yes						
SECTION F – PROPERTY OWI	NER (OR OWN	IER'S REP	RESENTA	TIVE) CE	RTIFICATION	
The property owner or owner's authorized representation community-issued BFE) or Zone AO must sign here. The property of the p	ve who comple he statements	tes Sections in Sections	s A, B, and A, B, and I	E for Zo are con	ne A (without a F rect to the best of	EMA-issued or f my knowledge.
Property Owner or Owner's Authorized Representative	's Name					
Address		City		Sta	ate	ZIP Code
Signature		Date		Te	ephone	
Comments						
					☐ Check h	ere if attachments.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corre			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, States 3040 Kingswood Drive	uite, and/or Bldg. No.) or P.O. Route and Box	No.	Policy Number:
City	State ZIP Code		Company NAIC Number
Richmond Hill	Georgia 31324		
SECTION	ON G - COMMUNITY INFORMATION (OPTIC	ONAL)	
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	Certificate. Complete the applicable item(s) a	lain man and sign	agement ordinance can complete below. Check the measurement
engineer, or architect who is authoriz data in the Comments area below.)	en from other documentation that has been si ted by law to certify elevation information. (Ind	icate the	source and date of the elevation
G2, A community official completed Sect or Zone AO.	ion E for a building located in Zone A (without	a FEMA	-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for community floodplain ma	anageme	ent purposes.
G4. Permit Number	G5. Date Permit Issued		ate Certificate of ompliance/Occupancy Issued
G7. This permit has been issued for:	New Construction Substantial Improvem	nent	
G8. Elevation of as-built lowest floor (including of the building:	g basement)	feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	meters Datum
G10. Community's design flood elevation:		feet	meters Datum
Local Official's Name	Title		
Community Name	Telephone		
Signature	Date		****
Comments (including type of equipment and lo	cation, per C2(e), if applicable)		
Gormania (memanig sypt or oquipment and re			
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Ap 3040 Kingswood Drive	Policy Number:		
City Richmond Hill	State Georgia	ZIP Code 31324	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 Caption

FRONT RIGHT VIEW 7/10/2017



Photo Two Caption

REAR LEFT VIEW 7/10/2017

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including Ap 3040 Kingswood Drive	lo. Policy Number:		
City	State	ZIP Code	Company NAIC Number
Richmond Hill	Georgia	31324	

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 One Caption

VENTS 7/10/2017



Photo Two Caption

VENTS 7/10/2017



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ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

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



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

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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:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com

info@smartvent.com

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 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.

4.0 DESIGN AND INSTALLATION

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.

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

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models 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).

TABLE 1-MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT®	1540-510	15 ³ / ₄ " 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 = m2

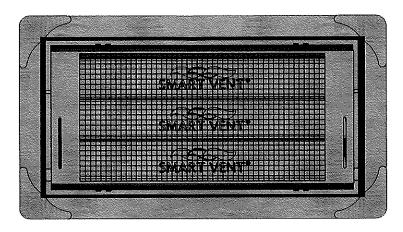


FIGURE 1—SMART VENT: MODEL 1540-510

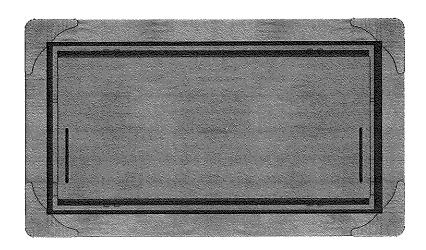


FIGURE 2—SMART VENT MODEL 1540-520

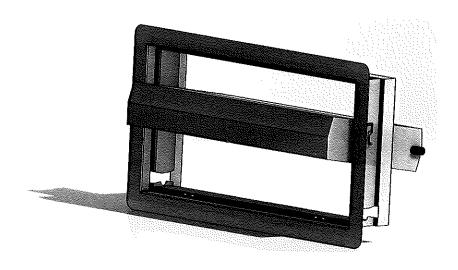


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN