U.C. 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.

· · · · · · · · · · · · · · · · · · ·	SECTION A - PROPERT	Y INFOR	MATION	F	OR INSUR	ANCE COMPANY USE
A1. Building Owner's Name					Policy Numb	per:
Harbaugh Develope	ers					
A2. Building Street Box No. 241 107th Street	Address (including Apt., Unit, Sui	ite, and/o	r Bldg. No.) or P.O.	Route and	Company N	AIC Number:
			State	<u></u>	IP Code	
City Stone Harbor			New Jersey		8247	
A3. Property Descri	iption (Lot and Block Numbers, T	ax Parce	Number, Legal De	scription, etc.)		
Block 107.03 Lots					and the second s	
	e.g., Residential, Non-Residential,		-			
A5. Latitude/Longit	ude: Lat. N 39°02'47.14"	Long. W	/ 074°45'57.69"	Horizontal Datum:	☐ NAD 1	927 🗵 NAD 1983
A6. Attach at least	2 photographs of the building if th	e Certific	ate is being used to	obtain flood insurar	ice.	
A7. Building Diagra	m Number8					
A8. For a building v	vith a crawlspace or enclosure(s):					
a) Square foot	age of crawispace or enclosure(s))	1,958 sq ft			
b) Number of p	permanent flood openings in the c	rawlspac	e or enclosure(s) wi	thin 1.0 foot above a	ıdjacent gra	ade10
c) Total net are	ea of flood openings in A8.b2,	,000 s	q in			
d) Engineered	flood openings? X Yes I	No				
A9. For a building w	vith an attached garage:					
a) Square foot	age of attached garage 0		sq ft			
	permanent flood openings in the a			ot above adjacent gr	ade	
	ea of flood openings in A9.b		sq în			
•	flood openings? Yes	No				
d) Engineered	mood openinge: ree	110				
	SECTION B - FLOOD	INSURA	NCE RATE MAP	(FIRM) INFORMAT	ION	
	ty Name & Community Number		B2. County Name			B3. State
Borough of Stone H	arbor #345323		Cape May			New Jersey
B4. Map/Panel Number	B5. Suffix B6. FIRM Index Date	E1	RM Panel fective/	B8. Flood Zone(s)	(Zor	e Flood Elevation(s) ne AO, use Base
345323/0001	C 12/31/1970	02/02	evised Date /1983	A7	10.0	nd Depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
FIS Profile X FIRM Community Determined Other/Source:						
B11. Indicate elevation datum used for BFE in Item B9: X NGVD 1929 NAVD 1988 Other/Source:						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No						
Designation D	Pate:	CBRS	□ ОРА			

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding i	information from Sec	tion A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or It 241 107th Street			Policy Number:
City State	ZIP (Code	Company NAIC Number
Stone Harbor New	Jersey 0824	17	
SECTION C - BUILDING ELE	VATION INFORMAT	ION (SURVEY R	EQUIRED)
C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when core	n Drawings*		ction*
C2 Flevations - Zones A1-A30, AE, AH, A (with BFE), V	/E. V1V30. V (with BF	E), AR, AR/A, AR	'AE, AR/A1A30, AR/AH, AR/AO.
Complete Items C2.a-h below according to the buildi Benchmark Utilized: NGS Disk SH-3	ng diagram specified i	n Îtem A7. În Puert El 9.73 NAVD 198	o Rico only, enter meters.
Indicate elevation datum used for the elevations in ite		٧.	
Datum used for building elevations must be the same		FE.	
		7 50	Check the measurement used.
 a) Top of bottom floor (including basement, crawlspa 	ce, or enclosure floor)	7, <u>58</u> 12 38	\overline{\text{\ti}\\\ \text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\texi}\tex{\text{\texi}\text{\texi}\text{\texitit}}\\text{\text{\tex
b) Top of the next higher floor		***************************************	X feet meters
c) Bottom of the lowest horizontal structural member	(V Zones only)	N/A	x feet meters
d) Attached garage (top of slab)		N/A.	X feet meters
 e) Lowest elevation of machinery or equipment services (Describe type of equipment and location in Common type). 	cing the building nents)	12. 0	🔀 feet 🗌 meters
f) Lowest adjacent (finished) grade next to building (LAG)	7.5	X feet meters
g) Highest adjacent (finished) grade next to building ((HAG)	8.0	X feet meters
 h) Lowest adjacent grade at lowest elevation of deck structural support 	or stairs, including	7, 7	X feet meters
SECTION D - SURVEYOR, E	NGINEER, OR ARC	HITECT CERTIF	CATION
This certification is to be signed and sealed by a land survi I certify that the information on this Certificate represents re statement may be punishable by fine or imprisonment und	eyor, engineer, or arch my best efforts to interp ler 18 U.S. Code, Sect	nitect authorized by oret the data availation 1001.	law to certify elevation information. ble. I understand that any false
Were latitude and longitude in Section A provided by a lice			
	License Number NJ Lic. No. 38250		
Title Professional Engineer and Land Surveyor	acyclical and an extensive properties and supplications and an extensive supplications and an extensive supplications are also supplicated and extensive supplications are also supplicated and extensive supplications are also supplicated as a supplication of the extensive supplications are also supplicated as a supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication of the extensive supplication and extensive supplications are also supplicated as a supplication of the extensive supplication of the extens		
Company Name		Gidding Marco (1)	Place
Dante Guzzi Engineering Associates	A STATE OF THE STA		Seai Here
Address 418 Stokes Road	ALANA SANTANA		
	State New Jersey	ZIP Code 08055	
Signature	Date 05/26/2017	Telephone (609) 654-4440	
Copy all pages of this Elevation Certificate and all attachment	ts for (1) community off	icial, (2) insurance	agent/company, and (3) building owner.
Comments (including type of equipment and location, per CA8.b) Smart Vents Model #1540-510 @200 sq in/each. The Crawl space floor. C2.b) Finished floor living space. C2.e) (01/30/2015) Zone AE (el=8.0 NAVD88). To convert the electric convert the electric case of the	ere are 2 additional Sr HVAC. The property is	located in PRELII	MINARY FIRM #34009C0242F
DGEA File #C-16-194			

ELEVATION CERTIFICATE

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

imf	ORTANT: In these spaces, copy the corres	ponding information	trom Section A.	FOR INSURANCE COMPANY US
Bu	ilding Street Address (including Apt., Unit, Suit 1 107th Street			Policy Number:
Cit		State	ZIP Code	Company NAIC Number
	y one Harbor	New Jersey	08247	
				OT PEOLIDED)
	manada i a a a a a a a a a a a a a a a a a	ZONE AO AND ZON	IE A (WITHOUT BFE)	
cor	Zones AO and A (without BFE), complete Iter nplete Sections A, B,and C. For Items E1–E4, er meters.	ns E1–E5. If the Certi use natural grade, if a	ficate is intended to suppo available. Check the meas	ort a LOMA or LOMR-F request, urement used. In Puerto Rico only,
E1.	Provide elevation information for the following the highest adjacent grade (HAG) and the low	g and check the appro west adjacent grade (I	ppriate boxes to show whe LAG).	ther the elevation is above or below
	Top of bottom floor (including basement, crawlspace, or enclosure) is	······································	feetm	eters 🔲 above or 🗌 below the HAG
	 Top of bottom floor (including basement, crawlspace, or enclosure) is 	, , , , , , , , , , , , , , , , ,	feet m	eters above or below the LAG.
E2.	For Building Diagrams 6–9 with permanent fle the next higher floor (elevation C2.b in	ood openings provide	d in Section A Items 8 and	d/or 9 (see pages 1–2 of Instructions),
	the diagrams) of the building is			eters 🔲 above or 🔲 below the HAG
E3.	Attached garage (top of slab) is		feet _ m	eters
E4.	Top of platform of machinery and/or equipme servicing the building is	nt		eters
E5.	Zone AO only: If no flood depth number is av floodplain management ordinance? Yes	ailable, is the top of th	ne bottom floor elevated in own. The local official mu	accordance with the community's ust certify this information in Section G.
	SECTION F - PROPERTY	OWNER (OR OWNE	R'S REPRESENTATIVE	CERTIFICATION
con	property owner or owner's authorized represent nor Zone AO must sign he	re. The statements in	s Sections A, B, and E for Sections A, B, and E are	Zone A (without a FEMA-issued or correct to the best of my knowledge.
Pro	perty Owner or Owner's Authorized Represent	ative's Name		
Add	Iress		City	State ZIP Code
Sig	nature		Date	Telephone
Cor	nments	de la companya de la		
				Check here if attachments.
				Grieck nere ii allachments.

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, St 241 107th Street		
City Stone Harbor	State ZIP Code New Jersey 08247	Company NAIC Number
SECTIO	ON G - COMMUNITY INFORMATION (OPT	IONAL)
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) ter meters.	and sign below. Check the measurement
engineer, or architect who is authorized data in the Comments area below.)	en from other documentation that has been ed by law to certify elevation information. (In	dicate the source and date of the elevation
or Zone AO.		ut a FEMA-issued or community-issued BFE)
G3. The following information (Items G4–	G10) is provided for community floodplain m	
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
16-12073	11/115/16	Ghilir
	☑ New Construction ☐ Substantial Improve	ment
G8. Elevation of as-built lowest floor (including of the building:	basement) 12 38	feet meters Datum N6V01929
G9. BFE or (in Zone AO) depth of flooding at t		☐ feet ☐ meters Datum ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
G10. Community's design flood elevation:	11 0	Maters Datum Datum 1988
Local Official's Name MICHAEL KOCK	Title CONST	BUCTION OFFICIAL
Community Name BOROUGH OF STO	Telephone	9.368.6814
Signature	Date	7/7
Comments (including type of equipment and loc	eation, per C2(e), if applicable)	
		Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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

ELEVATION CERTIFICATE

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including a 241 107th Street	Apt., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08247	

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.

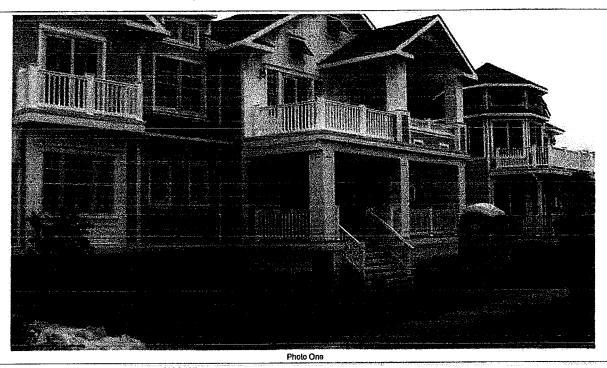


Photo One Caption FRONT VIEW (05/25/2017)

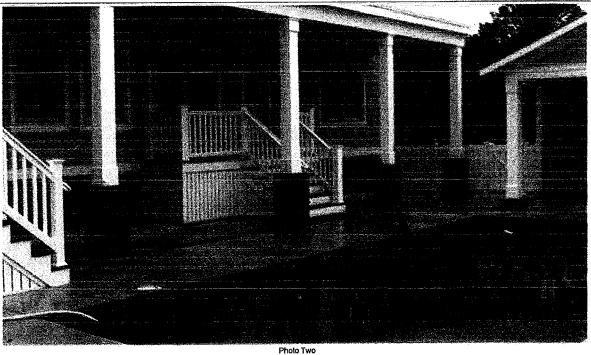


Photo Two Caption REAR VIEW (05/25/2017)

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including A	pt., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:	
241 107th Street City	State	ZIP Code	Company NAIC Number	
Stone Harbor	New Jersey	08247		

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.

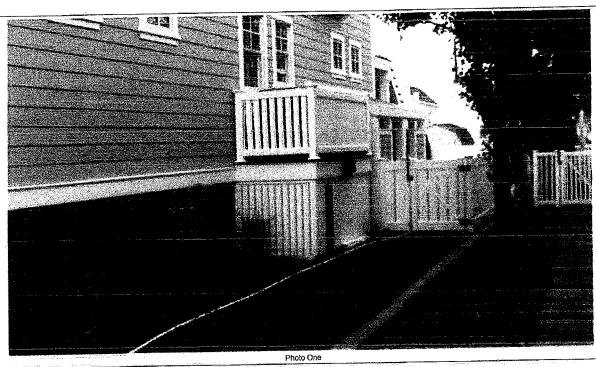


Photo One Caption RIGHT SIDE VIEW (05/25/2017)

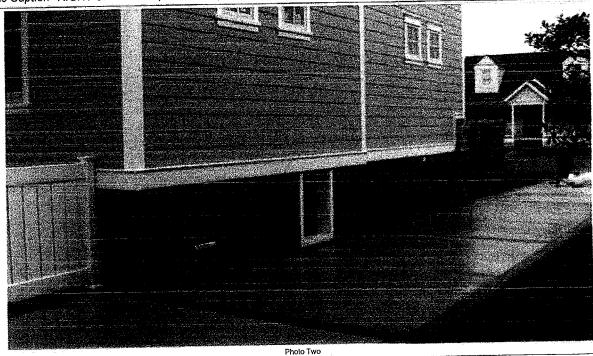


Photo Two Caption LEFT SIDE VIEW (05/25/2017)



ICC-ES Report

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ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

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; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074*

Reissued February 2015

This report is subject to renewal February 2017.

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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:

- 2012, 2009 and 2006 International Building Code® (IBC)
- 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
- Mater 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 2.6.2.2 of ASCE/SEI 24 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 Smart/ENT® 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 Smart/ENT® 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. The mounting straps allow mounting in masonry and concrete walls up to 12 inches (305 mm) thick. In order to comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, 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

*Revised July 2015



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 October 2013 (editorially revised May 2014).

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

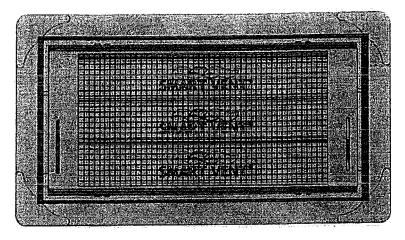


FIGURE 1-SMART VENT: MODEL 1540-510

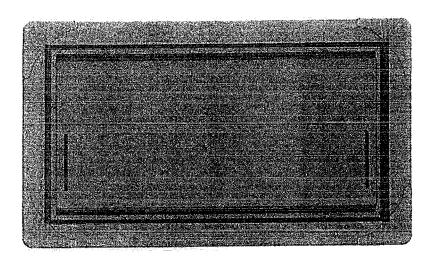


FIGURE 2—SMART VENT MODEL 1540-520

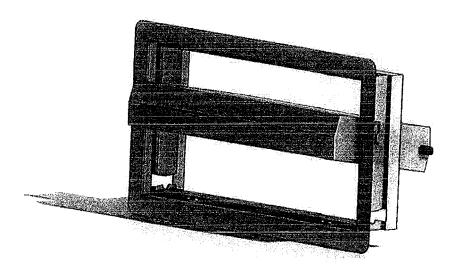


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN