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

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

Form Page 1 of 6

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

		ny, and (3) building owner.	
SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE	
A1. Building Owner's Name 5050 GMD INVEST LTD	Policy Nur	nber:	
 A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5050 GULF OF MEXICO DRIVE 	Company N	NAIC Number:	
City State	ZIP Code		
LONGBOAT KEY Florida	34228		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)			
LOT 45, LONGBOAT KEY SUBD. AS RECORDED IN PB 7, PG. 16, OF PUBLIC RECORDS, M	ANATEE CO., I	FL	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTL	AL		
A5. Latitude/Longitude: Lat. N27°24'19.66258" Long. W82°39'05.39147" Horizontal D	atum: 🗌 NAD	1927 🗙 NAD 1983	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood in	nsurance.		
A7. Building Diagram Number1B			
A8. For a building with a crawlspace or enclosure(s):			
a) Square footage of crawlspace or enclosure(s) 0 sq ft			
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot al	bove adjacent gr	rade 0	
c) Total net area of flood openings in A8.b 0 sq in			
d) Engineered flood openings? Yes No			
A9. For a building with an attached garage:	Ø		
a) Square footage of attached garage <u>576</u> sq ft			
 b) Number of permanent flood openings in the attached garage within 1.0 foot above adjac 	ent grade	3	
c) Total net area of flood openings in A9.b600 sq in			
d) Engineered flood openings? 🛛 Yes 🗌 No			
B1. NFIP Community Name & Community Number B2. County Name	MATION		
B1. NFIP Community Name & Community Number B2. County Name TOWN OF LONGBOAT KEY #125126 MANATEE		B3. State Florida	
B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ B8. Flood Zor	ne(s) B9. Bas	se Flood Elevation(s) ne AO, use Base	
12081C 0294 E 03/17/2014 - 03/17/2014 AE	Floo	od 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: SNGVD 1929 XNAVD 1988	Other/Source:		
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise P	Protected Area (C		
Designation Date:	Interted Aled (C		
EMA Form 086-0-33 (7/15) Replaces all previous editions.		Form Page 1 of 6	

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LEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 201
MPORTANT: In these spaces, copy the o	corresponding information	n from Section A.	FOR INSURANCE COMPANY US
Building Street Address (including Apt., Un 5050 GULF OF MEXICO DRIVE	it, Suite, and/or Bldg. No.) c	or P.O. Route and Box No.	Policy Number.
City	State	ZIP Code	Company NAIC Number
ONGBOAT KEY	Florida	34228	
SECTION C - I	BUILDING ELEVATION II	NFORMATION (SURVEY F	REQUIRED)
-		Building Under Const	ruction* X Finished Construction
*A new Elevation Certificate will be re	equired when construction a	f the building is complete.	
C2. Elevations – Zones A1–A30, AE, AH, Complete Items C2.a–h below accord	ding to the building diagram	, V (with BFE), AR, AR/A, AF specified in Item A7. In Pue	R/AE, AR/A1–A30, AR/AH, AR/AO. rto Rico only, enter meters.
Benchmark Utilized: SITE TBM EL 5.	.52' Verti	cal Datum: 1988	
Indicate elevation datum used for the	elevations in items a) throu	igh h) below.	
🗌 NGVD 1929 📋 NAVD 19			
Datum used for building elevations m	ust be the same as that use	ed for the BFE.	Check the measurement used.
a) Top of bottom floor (including bas	ement, crawlspace, or enclo	osure floor) 11.10	X feet T meters
b) Top of the next higher floor		N/A	
c) Bottom of the lowest horizontal str	uctural member (V Zones o		X feet meters
d) Attached garage (top of slab)		8, 51	X feet I meters
 e) Lowest elevation of machinery or (Describe type of equipment and labels) 	equipment servicing the bui ocation in Comments)	lding <u>11</u> . <u>11</u>	Ex feet meters
f) Lowest adjacent (finished) grade r	next to building (LAG)	<u> </u>	x feet inters
g) Highest adjacent (finished) grade	next to building (HAG)	<u> </u>	x feet meters
 h) Lowest adjacent grade at lowest e structural support 	elevation of deck or stairs, in	cluding <u>N/A</u> .	X feet 🗌 meters
SECTION D ~	SURVEYOR, ENGINEER	, OR ARCHITECT CERTIF	ICATION
This certification is to be signed and seale I certify that the information on this Certific statement may be punishable by fine or im	d by a land surveyor, engine ate represents my best effo	eer, or architect authorized b	v law to certify elevation information
Were latitude and longitude in Section A p	•		Check here if attachments.
Certifier's Name	License Nu		1
WALTER J. SMITH	PLS #4807	·	
Title PROF SURVEYOR			
Company Name OMC SURVEYING & MAPPING, LLC			Place Seal
Address 1215 MANATEE AVE WEST			Here Ah
City BRADENTON	State Florida	ZIP Code 34205	- Without
	Date 11/21/2016	Telephone (941) 345-5451	•//////////////////////////////////////
Copy all pages of this Elevation Certificate an	nd all attachments for (1) cor	mmunity official, (2) insurance	agent/company, and (3) building owne
Comments (including type of equipment an	d location, per C2(e), if app	licable)	

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ELEVATION CERTIFICATE			OMB No. 1660-0008 Expiration Date: November 30, 2018
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Building Street Address (including Apt., Unit, Suite, a 5050 GULF OF MEXICO DRIVE	· ·		Policy Number:
City LONGBOAT KEY		^D Code 228	Company NAIC Number
SECTION E – BUILDING FOR ZO	ELEVATION INFORMATI	ON (SURVEY NOT ITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items complete Sections A, B, and C. For Items E1–E4, use enter meters.	E1–E5. If the Certificate is i e natural grade, if available.	ntended to support a Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,
E1. Provide elevation information for the following a the highest adjacent grade (HAG) and the lower of bottom floor (HAG) and the lower of bottom floor (includes the second sec	nd check the appropriate bo st adjacent grade (LAG).	oxes to show whethe	r 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		🗌 feet 🔲 meter	s above or below the LAG.
E2. For Building Diagrams 6–9 with permanent floor the next higher floor (elevation C2.b in	d openings provided in Sect		
the diagrams) of the building is E3. Attached garage (top of slab) is		. ∐ feet ∐ meter . □ feet □ meter	
E4. Top of platform of machinery and/or equipment			
servicing the building is	able, is the top of the bottom	feet meter	cordance with the community's
E5. Zone AO only: If no flood depth number is available			
E5. Zone AO only: If no flood depth number is availa floodplain management ordinance? Yes	🗌 No 🔲 Unknown. Th	e local official must o	certify this information in Section G.
E5. Zone AO only: If no flood depth number is availa floodplain management ordinance? Yes SECTION F – PROPERTY OF	No Unknown. Th		
floodplain management ordinance? Yes SECTION F – PROPERTY O The property owner or owner's authorized representa	No Unknown. Th	PRESENTATIVE) CE	RTIFICATION
floodplain management ordinance? Yes SECTION F – PROPERTY OF The property owner or owner's authorized representa community-issued BFE) or Zone AO must sign here.	No Unknown. Th WNER (OR OWNER'S REF ative who completes Section The statements in Sections	PRESENTATIVE) CE	RTIFICATION
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IMPORTANT: In these spaces, copy th			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., 5050 GULF OF MEXICO DRIVE	Unit, Suite, and/or Bldg. No.)	or P.O. Route and Box	No. Policy Number:
City LONGBOAT KEY	State Florida	ZIP Code 34228	Company NAIC Number
s	ECTION G - COMMUNITY I	NFORMATION (OPTIO	NAL)
sections A, B, C (or E), and G of this Ele used in Items G8–G10. In Puerto Rico o	evation Certificate. Complete nly, enter meters.	the applicable item(s) a	 COV Data waas interacting action interacting and control and action of the second action of the secon
engineer, or architect who is a data in the Comments area be	uthorized by law to certify ele- low.)	vation information. (Indi	gned and sealed by a licensed surveyor, cate the source and date of the elevation
or Zone AO.			a FEMA-issued or community-issued BFE)
G3. The following information (Iterr	ns G4–G10) is provided for co	mmunity floodplain ma	nagement purposes.
G4. Permit Number	G5. Date Permit Issu	led	G6. Date Certificate of Compliance/Occupancy Issued
G7. This permit has been issued for:		Substantial Improveme	ent
G8. Elevation of as-built lowest floor (in of the building:	cluding basement)	[feet Timeters Datum
G9. BFE or (in Zone AO) depth of floodi	ng 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 a	nd location per C2(e) if ann	licable	na la la companya da compa
(
			RECEIVED
			DEC ~ 5 2016
			TOWN OF LONGBOAT KEY Planning, Zoning and Building
· · · · · · · · · · · · · · · · · · ·			Check here if attachments.
EMA Form 086-0-33 (7/15)	Replaces all prev	ious editions.	Form Page 4 of 6

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See Instructions for Item A6.

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

		Expiration Bate. November 60, 2010
the corresponding information	on from Section A.	FOR INSURANCE COMPANY USE
, Unit, Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
State Florida	ZIP Code 34228	Company NAIC Number
	, Unit, Suite, and/or Bldg. No.) State	

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

ELEVATION CERTIFICATE

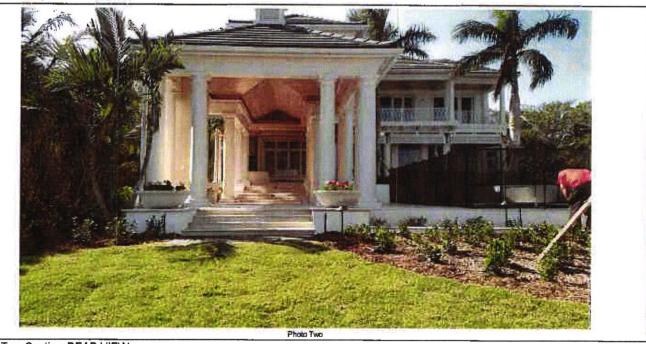


Photo Two Caption REAR VIEW

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OMB No. 1660-0008 Expiration Date: November 30, 2018 **ELEVATION CERTIFICATE Continuation Page** IMPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY USE Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number: 5050 GULF OF MEXICO DRIVE City State ZIP Code Company NAIC Number LONGBOAT KEY Florida 34228

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.

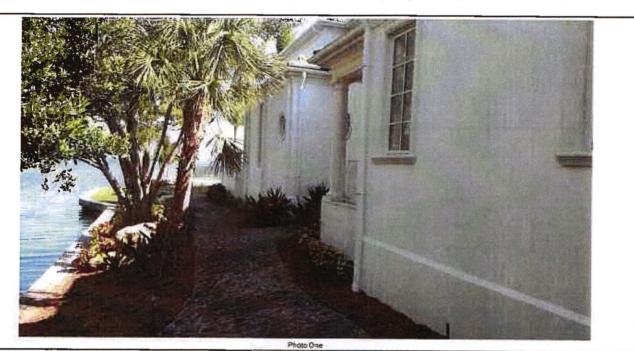


Photo One Caption NORTH SIDE

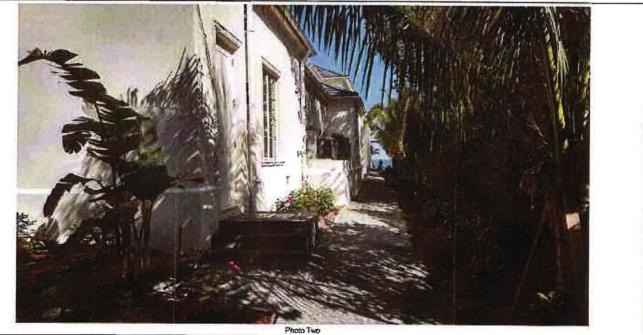


Photo Two Caption SOUTH SIDE

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Form Page 6 of 6

OMB No. 1660-0008 or 30 2018

ELEVATION CERTIFICATE	ION CERTIFICATE See Instructions for Item A6.			
IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5050 GULF OF MEXICO DRIVE			Policy Number:	
City LONGBOAT KEY	State Florida	ZIP Code 34228	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.

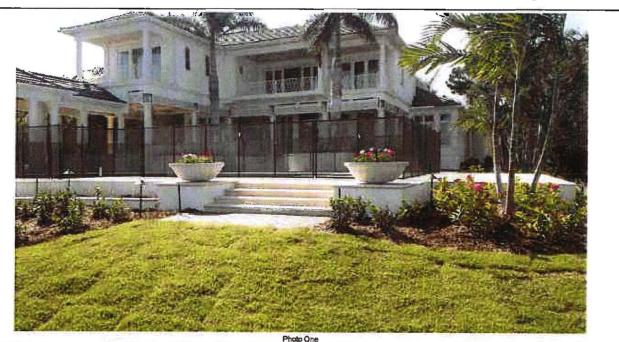


Photo One Caption

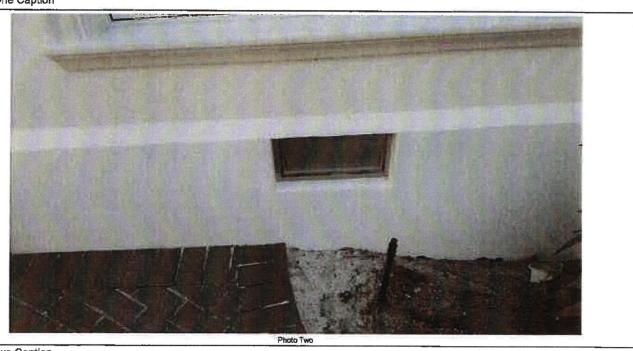


Photo Two Caption

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Form Page 5 of 6

ELEVATION CERTIFICATE	EVATION CERTIFICATE BUILDING PHOTOGRAPHS Continuation Page		
IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, 5050 GULF OF MEXICO DRIVE	Suite, and/or Bldg. No.)	or P.O. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
LONGBOAT KEY	Florida	34228	

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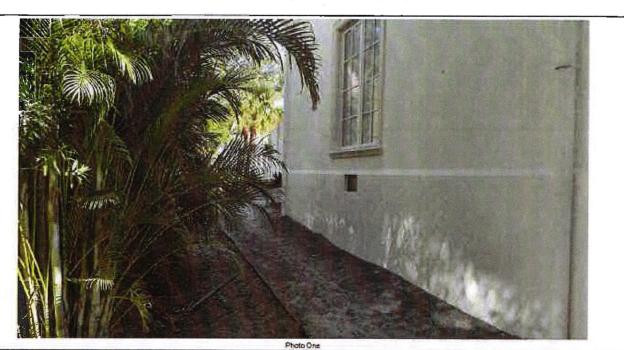


Photo One Caption



Photo Two Caption

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ICC-ES Evaluation Report

Most Widely Accepted and Trusted

ESR-2074* Reissued February 2015 This report is subject to renewal February 2017.

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:

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)[†]

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.

A Subsidiary of the International Code Council®

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 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. 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

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.



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).

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 = m²

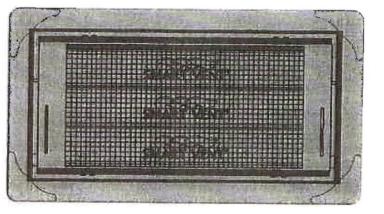


FIGURE 1-SMART VENT: MODEL 1540-510

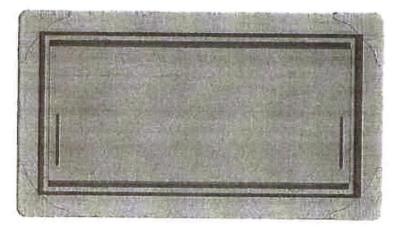


FIGURE 2-SMART VENT MODEL 1540-520

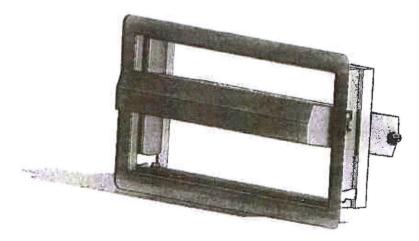


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



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ICC-ES Evaluation Report

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ESR-2074 FBC Supplement*

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DIVISION: 08 00 00—OPENINGS Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

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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 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:

- E 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

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 FBC and the FRC, provided the design and installation are in accordance with the *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 FBC and the FRC.

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 2015 and revised July 2015.

*Revised July 2015

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