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

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

			SEC	HON A - PRO	PERTY INFOR	MATION		For Insurance	e Company Use:
	Building Owner's Name LANDMARK 24 HO							Policy Numb	er
	Building Street Address (502 FOREST LAKES D		Unit, Suite, and/or t	Bldg. No.) or P.	O. Route and Box	No.		Company NA	AIC Number
	City POOLER	Sta GA			ZIP Code 31322				
A3.	Property Description (Lot LOT 1, FOREST LAKE	and Block Nu	mbers, Tax Parcel N		Description, etc.)				
A5.	Building Use (e.g., Resid Latitude/Longitude: Lat. 3 Attach at least 2 photogra	<u>32.1441</u> °N Loi	ng. <u>081.2703</u> °W			Horizonta	al Datum:	□ NAD 1	927 🛛 NAD 1983
A 7.	Building Diagram Number	er <u>*3</u>		•				_	
	For a building with a craw a) Square footage of cra			N/A sq ft		a building with Square footag			<u>*780</u> sq ft
	b) No. of permanent floo enclosure(s) within 1.	od openings in	the crawlspace or	<u>0</u>	b) N		ent flood	penings in the	e attached garage
	c) Total net area of floor			0 sq in	c) T	Total net area	of flood o	penings in A9.	b <u>*800</u> sq in
	d) Engineered flood ope		☐ Yes			Engineered flo		ngs? 🔯	Yes No
_			TION B - FLOOD			RM) INFORI			
	NFIP Community Name & CITY OF POOLER	Community N 13026		B2. County N CHATHA			E	33. State GA	
B4.	. Map/Panel Number 13051C0019	B5. Suffix F	B6. FIRM Index Date 09/26/2008	Effecti	FIRM Panel ve/Revised Date 09/26/2008	B8. F Zone Al	e(s)	AO, use	ood Elevation(s) (Zone base flood depth) 1' FREEBOARD
10	Indicate the source of the								
10.			☐ Community Det		Other (Descri				
44					E	Other ((Describe)		
12.	Indicate elevation datum Is the building located in Designation Date	a Coastal Barr			☑ NAVD 1988 a or Otherwise Pro ☐ OPA	tected Area (OPA)?	' □ Ye	s 🛛 No
12.	Indicate elevation datum is the building located in	a Coastal Barr		em (CBRS) are	a or Otherwise Pro	tected Area (OPA)?	☐ Ye	s 🛭 No
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			information from Section A.		For Insurance Company Use:
502 FOREST LAN			o.) or P.O. Route and Box No.		Policy Number
City POOLER		State GA	ZIP Code 31322	8	Company NAIC Number
	SECTION D	- SURVEYOR, ENGIN	IEER, OR ARCHITECT CERTIF	ICATION (CONT	INUED)
Copy both sides of	this Elevation Certifica	ate for (1) community offic	ial, (2) insurance agent/company, an	d (3) building owne	Te
SECTION A5: MET SECTION A7: BUIL SECTION A9.a: TH GA SECTION A9.b: TH SECTION A9.c: TH CO TO SECTION B9: BASI ADMIN SECTION B9: THE SECTION C2: THE (SUB VAL) SECTION C2: THE	HOD OF DETERMIN. DING TYPE IS BACK IS HOUSE IS BEING RAGE/MODEL HOM! E INTERIOR GRADE E SMART VENT FLO UNCIL (ICC) EVALU. VENT UP TO 200 SC E FLOOD ELEVATIO ISTRATOR. THE 1'(() BASE FLOOD ELEV. BENCH MARK USE! BEIVISION MAP BOO UE (-0.91') TO THE N ELEVATIONS ARE F	ATION BY USE OF HAND GFILLED STEM WALL FO USED AS A MODEL HO E OFFICE IS APPROXIM E ELEVATION IS USED FO OD VENT PRODUCT IS ATION SERVICES EVALI QUARE FEET OF ENCLO N DETERMINED ACCORD ONE FOOT) FREEBOARD ATION ACCORDING TO OFOR THIS CERTIFICAT ONE SAS, PAGES 67A-B). TO IGVD 29 HEIGHT. REFERENCED TO NAVD	OR THE ADJACENT GRADE. USED FOR THE 4 FLOOD OPENIN JATION REPORT WHICH INDICATE ISED AREA. IDING TO THE PROCEDURE OF THE D IS A PROVISION OF THE COMMUTHE FLOOD INSURANCE STUDY FOR THE NAVD 88 HEIGHT IS COMPUTE 88.	GS. SEE THE ATTA ES THE FLOOD FL HE COMMUNITY FI JNITY FLOOD DAM FLOOD PROFILE IS SUBDIVISION PLA ED BY APPLYING	ACHED INTERNATIONAL CO OW RATE PERMITS ONE VE LOODPLAIN ORDINANCE MAGE PREVENTION ORDINA 5 19.7' (NAVD 88). AT OF FOREST LAKES, PHA THE VERTCON SHIFT
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Signature	ea. he	le 1	Date 3/26/2013	1	☐ Check here if attachments
SECTION E -	BUILDING ELEVA	TION INFORMATION	(SURVEY NOT REQUIRED) FO		
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Building PhotographsSee Instructions for Item A6.

			For Insurance Company Use:	
Building Street Addres	Policy Number			
502 FOREST L	AKES DRIVE			
City	State	ZIP Code	Company NAIC Number	
POOLER	GA	31322		

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two 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." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.

FRONT VIEW 3/26/2013



REAR VIEW 3/26/2013



LEFT SIDE VIEW 3/26/2013



RIGHT SIDE VIEW 3/26/2013



Building PhotographsContinuation Page

			For Insurance Company Use:
Building Street Addres	Policy Number		
502 FOREST L			
City	State	ZIP Code	Company NAIC Number
PÓOLER	GA	31322	

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."

GARAGE AREA BEING USED AS MODEL HOME OFFICE 3/26/2013



CONDENSING UNIT / SMART VENT FLOOD VENT 3/26/2013



INTERIOR VIEW OF SMART VENT FLOOD VENTS LOCATED IN GARAGE/MODEL HOME OFFICE 3/26/2013



TYPICAL SMART VENT FLOOD VENT 3/26/2013





ICC-ES Evaluation Report

ESR-2074

Reissued December 1, 2012

This report is subject to renewal February 1, 2015.

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 00-Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. **450 ANDBRO DRIVE, SUITE 2B PITMAN, NEW JERSEY 08071** (856) 307-1468 www.smartvent.com

eval@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: **FLOODVENT™** MODEL #1540-520; **FLOODVENT™** STACKING MODEL #1540-521; SMARTVENT™ MODEL #1540-510; SMARTVENT™ STACKING MODEL #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL FLOODVENT™ OVERHEAD DOOR MODEL #1540-524; SMARTVENT™ OVERHEAD DOOR MODEL #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code® (IBC)
- 2009 and 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. The Smart Vent® units are intended for use where flood hazard areas have been established in accordance with IBC Section 1612.3 or IRC Section R3222.1. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

3.0 DESCRIPTION

3.1 General:

When subjected to pressure from rising water, the Smart Vent® AFFVs disengage, 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 AFFV 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 plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel, and each opening provides 76 square inches (49 032 mm²) of net free area for flood mitigation in the open position. The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit, providing 152 square inches (98 064 mm²) of net free area for flood mitigation in the open position.

3.2 Engineered Opening:

The AFFVs 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 AFFVs must be installed in accordance with Section 4.0.

3.3 Model Sizes:

The FloodVENT™ Model #1540-520, SmartVENT™ Model #1540-510, FloodVENT™ Overhead Door Model #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure 153/4 inches wide by 73/4 inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by 83/4 inches high (355.6 by 222.25 mm). The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

3.4 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 AFFVs recognized in this report do not offer natural ventilation.

4.0 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 wood, 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® AFFVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one AFFV 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 AFFV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.
- With the bottom of the AFFV located a maximum of 12 inches (305.4 mm) above grade.

5.0 CONDITIONS OF USE

The Smart Vent® AFFVs 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® AFFVs 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® AFFVs 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 Automatic Foundation Flood Vents (AC364), dated October 2007.

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).