

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires February 28, 2009

Important: Read the instructions on pages 1-8.

OK
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7-000

FORM 1071-A
SR

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Robert Zimmerman		For Insurance Company Use:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3045 W. Hermans Rd. #2		Policy Number
City Tucson	State AZ	Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Tax Code 138-29-1180 Township 15S Range 13 Section 20		ZIP Code 85746

Accessory: Detached Garage

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	Accessory: Detached Garage	
A5. Latitude/Longitude: Lat. 32.105411 Long. -111.032373	Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number 1	DETACHED	
A8. For a building with a crawl space or enclosure(s), provide:	A9. For a building with an attached garage, provide:	
a) Square footage of crawl space or enclosure(s) N/A sq ft	a) Square footage of attached garage 1400 sq ft	
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade N/A	b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade N/A	
c) Total net area of flood openings in A8.b N/A 1072 sq ft	c) Total net area of flood openings in A9.b N/A 1072 sq ft	

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Pima County / 040073		B2. County Name Pima County		B3. State AZ	
B4. Map/Panel Number 04019C 2810	B5. Suffix K	B6. FIRM Index Date 2/8/99	B7. FIRM Panel Effective/Revised Date 2-8-99	B8. Flood Zone(s) A	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 1.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
 FIS Profile FIRM Community Determined Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other (Describe) **Highest Adjacent Natural Grade**

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No
 Designation Date **N/A** CBRS OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
 *A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-g below according to the building diagram specified in Item A7.
 Benchmark Utilized **LOCAL** Vertical Datum **Assumed**
 Conversion/Comments **N/A**

Check the measurement used.

a) Top of bottom floor (including basement, crawl space, or enclosure floor)	98 88 <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	N/A <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	N/A <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment in Comments)	N/A <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade (LAG)	97.00 <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade (HAG)	97.80 <input checked="" type="checkbox"/> feet	<input type="checkbox"/> meters (Puerto Rico only)

When B.9 is a depth above grade, it is required to indicate highest and lowest NATURAL grade in Section D Comments

SECTION D - SURVEYOR, ENGINEER, CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form.

Certifier's Name GREGORY W BAUER	License Number 35111
Title PRES.	Company Name ARROW LAND SURVEY, INC
Address 3121 E KLEINDALE	City TUCSON
State AZ	ZIP Code 85716
Signature <i>[Signature]</i>	Date 6/27/08
Telephone 520-881-2155	



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. 3045 W. Hermans Rd. #2		Policy Number
City Tucson	State AZ	ZIP Code 85746
		Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments The lowest service equipment (C3.e) is the _____ and the _____ is/are above this elevation.

Highest adjacent natural grade is _____ Lowest adjacent natural grade is _____
NO EQUIPMENT SERVING BUILDING, FLOOD VENTS ARE SMALL VENTS (EACH ACCOUNTS FOR 200 S.F. OF ENCLOSED AREA.)

Signature [Signature] Date 6-27-08 Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
 - a) Top of bottom floor (including basement, crawl space, and enclosure) is _____ feet _____ meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawl space, and enclosure) is _____ feet _____ meters above or below the LAG.
- E2. For Building Diagrams 6-8 with permanent flood openings provided in Section A Items 6 and 9 (see page 8 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet _____ meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet _____ meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet _____ meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name N/A

Address _____ City _____ State _____ ZIP Code _____

Signature _____ Date _____ Telephone _____

Comments _____

Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8. and G9.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4.-G9.) is provided for community floodplain management purposes.

G4. Permit Number FPUP# 06-581E	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
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- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ feet _____ meters (PR) Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ feet _____ meters (PR) Datum _____

Local Official's Name _____ Title _____

Community Name _____ Telephone _____

Signature _____ Date _____

Comments _____

Check here if attachments

FPUP# 06-581E

Building Photographs (Four Color Photographs Required)

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3045 W. Hermans Rd. #2			For Insurance Company Use: Policy Number
City Tucson	State AZ	ZIP Code 85746	Company NAIC Number



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 below according to
 if required, "Right
 Continuation Page,
 "Back
 View"
 6-11-08



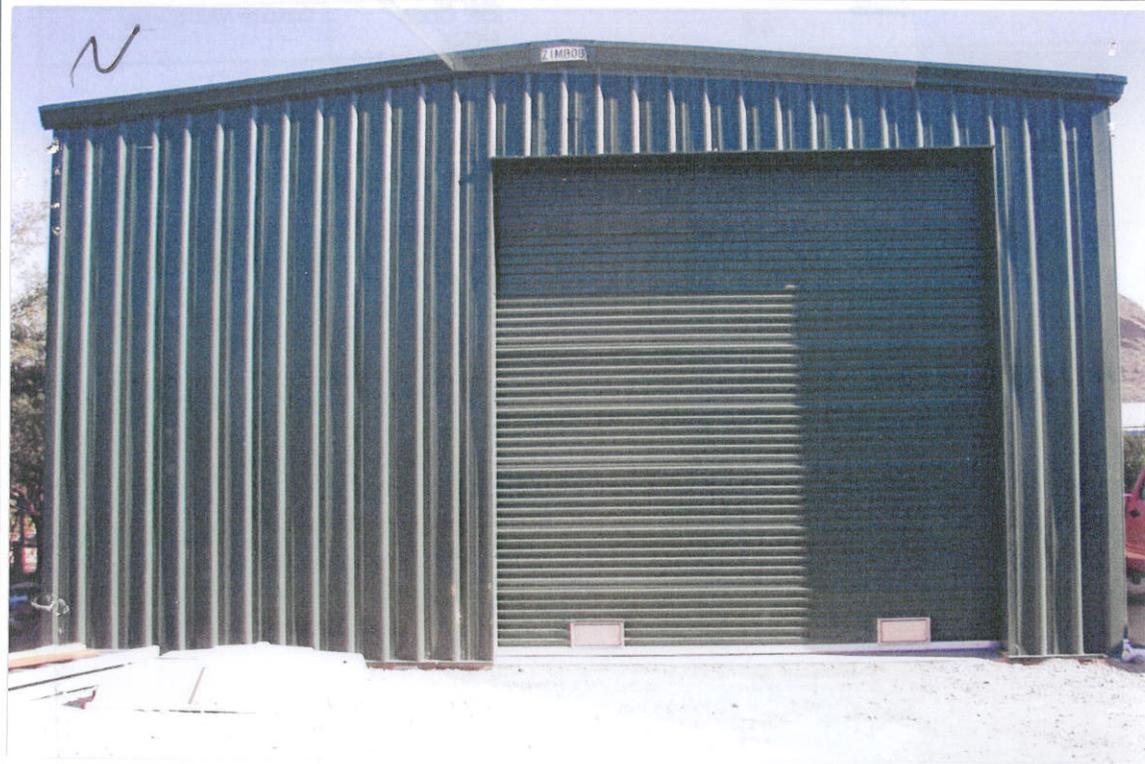
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FPUP# 06-581E

Building Photographs(Four Color Photographs Required)

See Instructions for Item A6.

Building Street Address (including Apt Unit, Suite, and/or Bldg.)		or P.O. Route and Box No.		For Insurance Company Use:	
3045 W. Hermans Rd. #2				Policy Number	
City	State	ZIP Code	Company NAIC Number		
Tucson	AZ	85746			



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"FRONT VIEW"

6-11-08



"Right Side View"

6-11-08

Engineered Flood Openings Certificate for Smart VENT®

To satisfy requirements of the *International Code Series* and the National Flood Insurance Program

This certification must be submitted to, and kept on file by, the local jurisdiction's permit authority. A copy should be retained by the owner to demonstrate compliance in order to receive the correct flood insurance rating.

The Smart VENT® model numbers 1540-510 (available as 1540-511 2-unit stacked and 1540-550 quad assembly), 1540-520 (available as 1540-521 2-unit stacked and 1540-560 quad assembly), 1540-514, 1540-524, 1540-570 and 1540-574 are certified as meeting the flood opening requirements for engineered openings as set forth in the *International Building Code* (2003 and 2006), *International Residential Code* (2003 and 2006), *Flood-Resistant Design and Construction* (ASCE 24-05), and Federal Emergency Management Agency's National Flood Insurance Program regulations (44 CFR 60.3(c)(5)), provided they are installed according to the those references, as summarized in the "Installation Limitations and Instructions" below. Flood openings are required in the walls of enclosures below elevated buildings (including crawlspaces), attached and detached garages, and accessory structures that meet the limitations set forth in the building codes and by the N FIP. For a copy of the report documenting this certification dated July 2007, the ICC ES acceptance criteria AC364, and the ICC ES Legacy Report NER 624, contact Smart VENT, Inc., at 877/441-8368 or visit www.smartvent.com.

I do hereby certify that the Smart VENT® model numbers 1540-510, 1540-520, 1540-514, 1540-524, 1540-570 and 1540-574 are designed for installation in walls of enclosed areas below elevated buildings, will allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater during floods. One Smart VENT unit installed for every 200 sq. ft. of enclosed area will provide sufficient hydrostatic pressure equalization provided the installation limitations and instructions are followed as listed below. To calculate the required number of units, determine the square footage of the enclosed area and divide by 200.

Example: A 2000 sq. ft. enclosed area requires
10 Smart VENT units (2000 / 200 = 10 units)

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Installation Limitations and Instructions

1. The Smart VENT® model numbers 1540-510 (available as 1540-511 2-unit stacked and 1540-550 quad assembly), 1540-520 (available as 1540-521 2-unit stacked and 1540-560 quad assembly), 1540-514, 1540-524, 1540-570 and 1540-574 provide sufficient automatic equalization of hydrostatic pressure on walls and foundations of elevated buildings located in flood hazard areas where the rate of rise is expected to be less than or approximately 5 feet per hour.
2. Enclosed areas below otherwise elevated buildings, non-elevated attached and detached garages, and certain non-elevated accessory structures located in flood hazard areas are to be used solely for parking of vehicles, building access, or storage.
3. Each enclosed area shall have at least two flood openings, installed on different sides of the enclosed area.
4. The bottom of the flood openings shall be no more than one foot above the adjacent finished ground level (interior or exterior).
5. Installation must be in accordance with manufacturer's instructions.
6. The Local Jurisdiction's permit authority may require separate certification of the design of foundations and walls in which Smart VENT® units are to be installed.

** FOR USE BY OWNER/INSTALLER **

Project Address 3045 W. Hermans RD #2 Date Submitted 6-12-08
Tucson AZ 85746

Total Area of Enclosure 1440 (sq ft) Number of Smart Vent Units 8

The Smart VENT units are constructed in the U.S. of stainless steel. A rigid frame is designed to be installed in masonry walls, framed walls, or garage doors. A pivoting door assembly is fitted with two patented float devices that release the door with rising water. The door swings open to provide two horizontal slot openings. The pivoting door assembly is available in two configurations – some models have temperature-controlled louvers with vermin-resistant screen and other models have a solid, insulated pivoting door.

Both configurations provide the same effective performance under rising and falling floodwaters. Performance tests were observed and certified by a qualified, third-party test company. The tests examined rising and falling flood conditions with large volumes of water. A separate test was performed to demonstrate that Smart VENT units successfully pass floating debris with no reduction in performance (3" plastic balls, leaves and grass clippings). Contact Smart VENT, Inc., for a copy of the certified engineering report documenting this certification (877/441-8368 or visit www.smartvent.com).

