

# 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 – PROPERTY INFORMATION				FOR INSURANCE COMPANY USE	
A1. Building Owner's Name JERRY AND RITA COLLINS				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 141 N. CASEY KEY ROAD (DETACHED GARAGE ONLY)				Company NAIC Number:	
City SARASOTA		State Florida		ZIP Code 34229	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LANDS LYING WESTERLY OF CASEY KEY RD., SECTION 16-38-18, PID #0146-33-0001					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>ACCESSORY/GARAGE &amp; STORAGE</u>					
A5. Latitude/Longitude: Lat. <u>27.1816982</u> Long. <u>-82.4992912</u> 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 <u>1A</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>952</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>3</u>					
c) Total net area of flood openings in A8.b <u>768</u> sq in					
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
A9. For a building with an attached garage:					
a) Square footage of attached garage <u>0</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>0</u>					
c) Total net area of flood openings in A9.b <u>0</u> sq in					
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION					
B1. NFIP Community Name & Community Number SARASOTA COUNTY 125144			B2. County Name SARASOTA		B3. State Florida
B4. Map/Panel Number 125144 0236	B5. Suffix D	B6. FIRM Index Date 09/03/1992	B7. FIRM Panel Effective/ Revised Date 05/01/1984	B8. Flood Zone(s) A12	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 11'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

# ELEVATION CERTIFICATE

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

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 141 N. CASEY KEY ROAD (DETACHED GARAGE ONLY)			Policy Number:
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## 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–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: NGS #157 I, SARCO DISK Vertical Datum: NAVD88 Converted TO NGVD29

Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- |                                                                                                                               |              |                                          |                                 |
|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)                                                   | <u>10.75</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor                                                                                               | <u>19.38</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)                                                           | <u>N/A</u>   | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)                                                                                              | <u>N/A</u>   | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments) | <u>11.1</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)                                                                    | <u>10.1</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)                                                                   | <u>10.3</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support                                  | <u>N/A</u>   | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |

## SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT 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.

Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No  Check here if attachments.

Certifier's Name MARTIN S. BRITT	License Number LS 5538	
Title PRESIDENT		
Company Name MSB SURVEYING, INC.		
Address 31 SARASOTA CENTER BOULEVARD, SUITE C		
City SARASOTA	State Florida	
Signature <i>Martin S. Britt</i>	Date 06/17/2016	Telephone (941) 341-9935

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

Comments (including type of equipment and location, per C2(e), if applicable)  
 CONVERSION FROM NAVD88 TO NGVD29 = +1.12'.  
 DETACHED GARAGE ONLY. C2.a) DENOTES THE GARAGE AREA FINISH FLOOR; C2.b) DENOTES THE STORAGE/ATTIC AREA FINISH FLOOR; C2.e) DENOTES ELEVATION OF THE BOTTOM OF AC UNIT LOCATED OUTSIDE OF STRUCTURE ON PAD; LOWEST ELECTRICAL OUTLET = 14.4', BOTTOM OF ELECTRIC PANEL BOX = 14.8'.  
 A8.c) DENOTES THE OPENING SQUARE INCHES PRIOR TO VENT INSTALLED. NOTE: SMART VENT #1540-521 DUAL VENT INSTALLED IN 3 OPENINGS. VENTS TO ACCOMODATE 1200 SQUARE FEET OF ENCLOSED AREA.

# ELEVATION CERTIFICATE

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## 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, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 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 or Owner's Authorized Representative's Name

Address	City	State	ZIP Code
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Signature	Date	Telephone
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Comments

Check here if attachments.

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
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<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
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## 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–G10. In Puerto Rico only, enter meters.

- 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–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued
-------------------	------------------------	-----------------------------------------------------

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 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 location, per C2(e), if applicable)

Check here if attachments.

# BUILDING PHOTOGRAPHS

## ELEVATION CERTIFICATE

See Instructions for Item A6.

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Expiration Date: November 30, 2018

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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

Photo One Caption EXHIBIT 1: (6/17/16) FRONT & LEFT SIDE VIEW



Photo Two

Photo Two Caption EXHIBIT 2: (6/17/16) RIGHT SIDE & REAR VIEW

**ELEVATION CERTIFICATE**

**BUILDING PHOTOGRAPHS**

Continuation Page

OMB No. 1660-0008

Expiration Date: November 30, 2018

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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

Photo One Caption EXHIBIT 3: (6-17-16) TYPICAL SMART VENT USED MODEL #1540-521



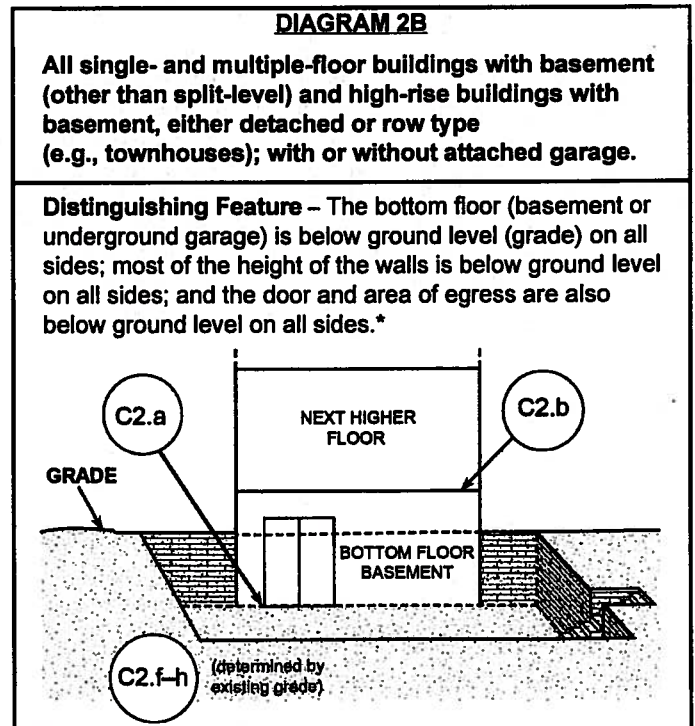
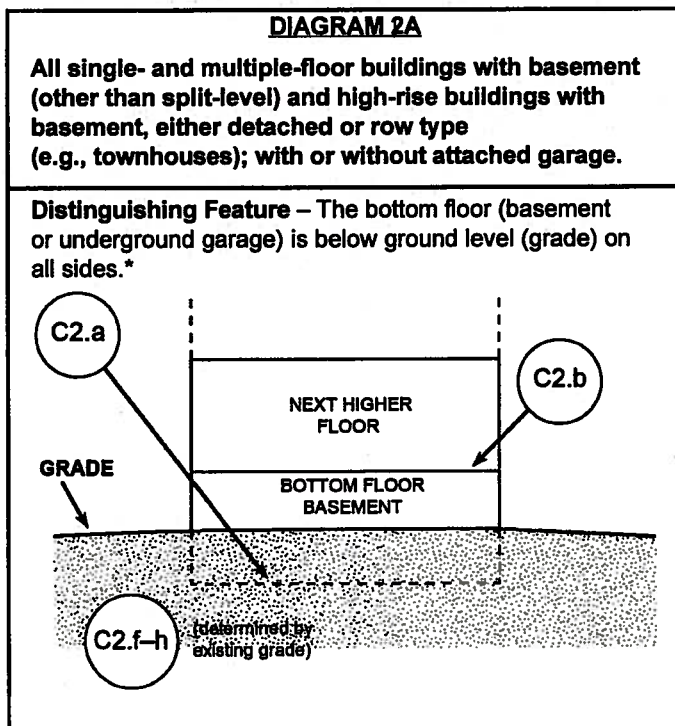
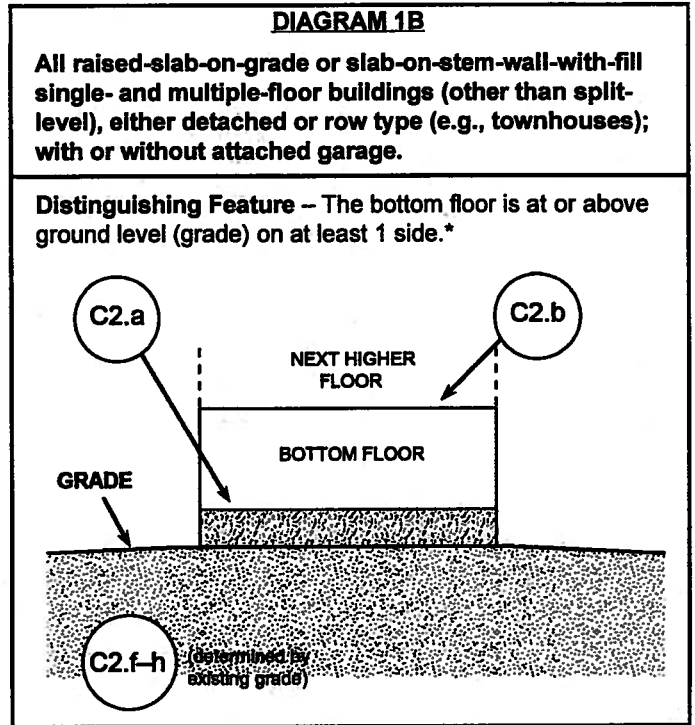
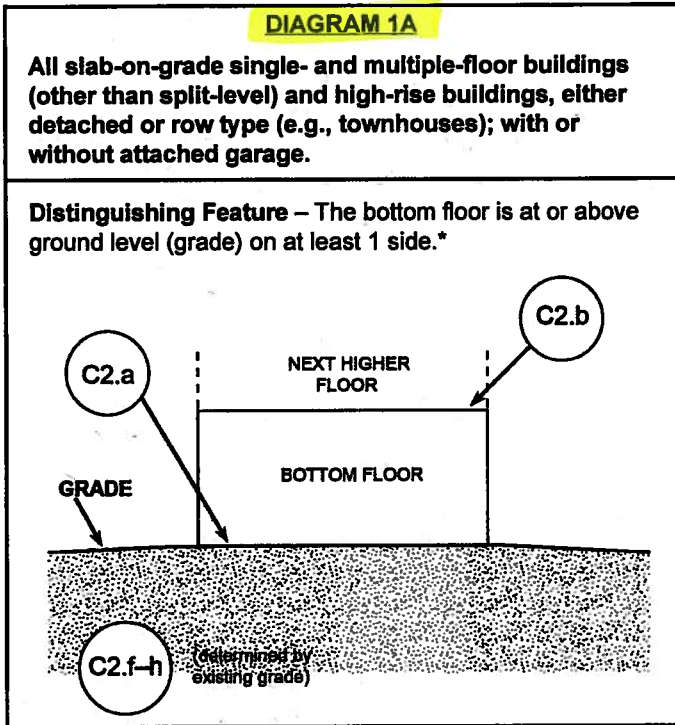
Photo Two

Photo Two Caption EXHIBIT 4: (6-17-16) AC UNIT LOCATED OUTSIDE OF STRUCTURE ON PAD

## Building Diagrams

The following diagrams illustrate various types of buildings. Compare the features of the building being certified with the features shown in the diagrams and select the diagram most applicable. Enter the diagram number in Item A7, the square footage of crawlspace or enclosure(s) and the area of flood openings in square inches in Items A8.a–c, the square footage of attached garage and the area of flood openings in square inches in Items A9.a–c, and the elevations in Items C2.a–h.

In A zones, the floor elevation is taken at the top finished surface of the floor indicated; in V zones, the floor elevation is taken at the bottom of the lowest horizontal structural member (see drawing in instructions for Section C).



\* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

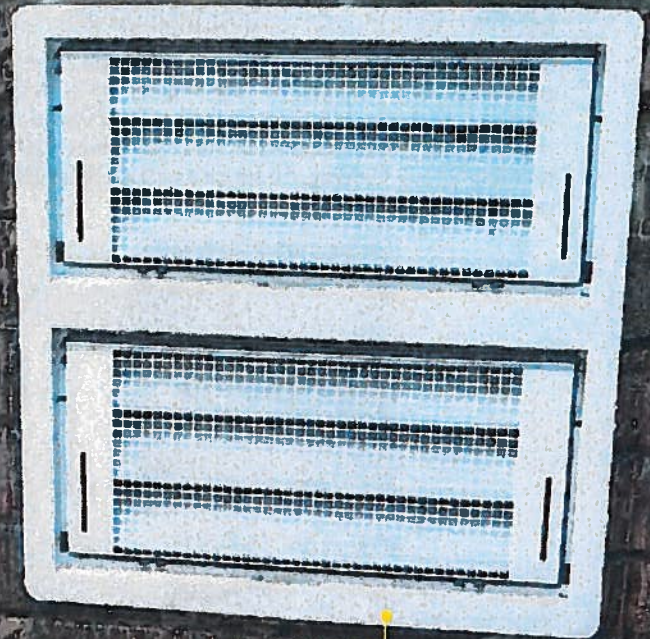
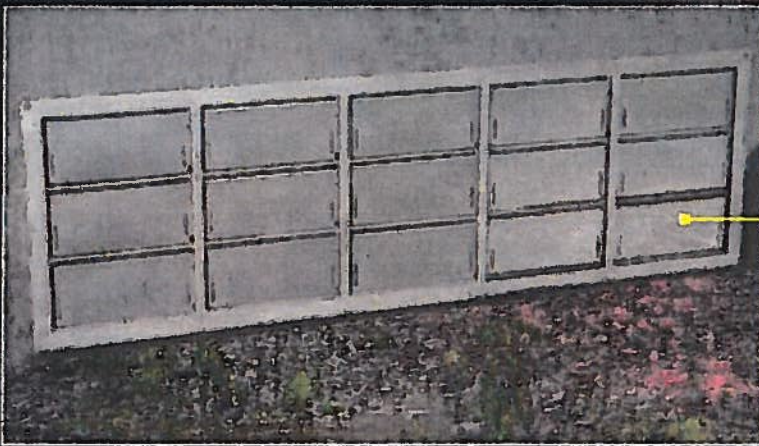
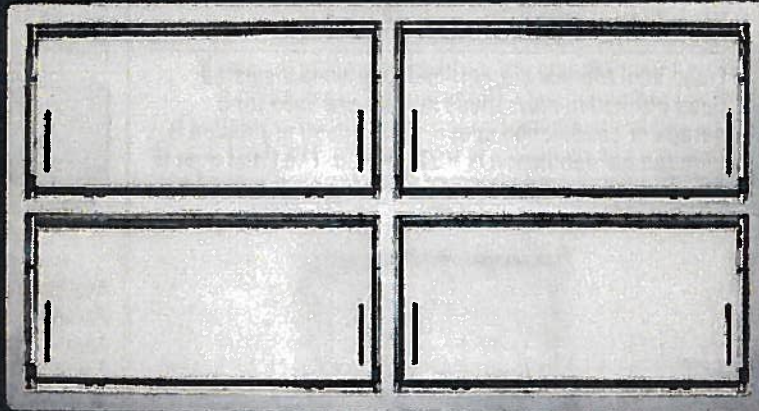






## SMART VENT® Combination Models

Quad Configuration



Custom  
Commercial  
Application

Stacked  
Model

## Stacked, Quad and Custom Flood Vents SMART VENT® Combination Models Multiply Protection

Combination models come standard in a stacked and a quad configuration. Each configuration is available in a dual function (ventilation and flood protection), or insulated (flood protection only) style. Stacked models are twice as efficient as a single unit and are generally used to provide protection in larger dwellings or where adequate wall space is not available. Quad configurations are an excellent solution for larger commercial projects and are not normally used in residential dwellings. Four vents provide 800 square feet of coverage into a single opening.

### How it works:

**Flood Protection:** The SMART VENT® door is latched closed until flood water enters. Entering flood water lifts the patented internal floats which unlatches and rotates the door open. This allows the flood water to automatically enter and exit through the frame opening, relieving the pressure from your foundation walls.

**Ventilation:** On dual function models, a bimetal coil (like a thermostat, no electricity is needed) automatically opens and closes the ventilation louvers as temperature changes. They will be closed when it is cold outside and open when it is warm outside to provide natural ventilation.

**Important note:** Dual Function models do not rely on the louvers to let flood water in and out. Regardless of the louvers' position, opened or closed, when flood water flows into the door, the internal floats release the door to rotate open to relieve the hydrostatic pressure. The louvers and pest screen are rotated out of the path of the flood water. The temperature controlled louvers are for ventilation purposes only.



# SMART VENT

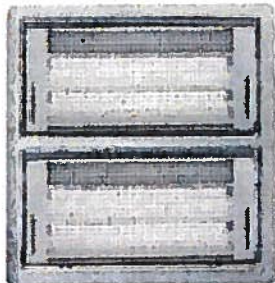
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## SMART VENT® Combination Models

### SMART VENT® Combination Models

SMART VENT® Models are certified to provide flood protection AND ventilation. These models are used for a home with a crawl space or built on a pony wall that requires seasonal ventilation of the crawl space AND protection from flooding. All stainless steel construction resists weather and pests.



**Model #:** 1540-511

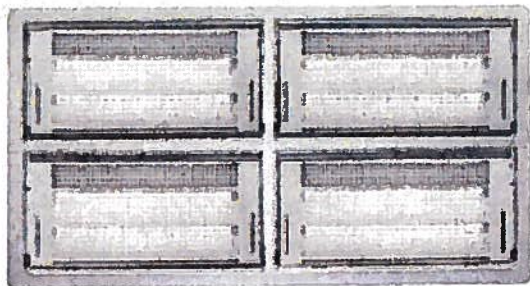
**Installation Type:** Masonry

**Style:** Louvered

**Dimensions:** 16" x 16"

**Rough Opening:** 16¼" x 16 ⅜"  
(two blocks, or CMU)

One 16" x 16" vent certified for 400 sq. ft. of enclosed area for flood, and 102 sq. in. for ventilation



**Model #:** 1540-550

**Installation Type:** Masonry

**Style:** Louvered

**Dimensions:** 32" x 16"

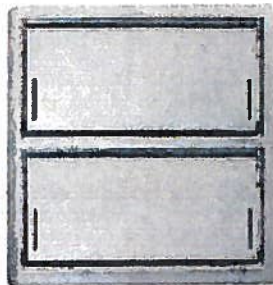
**Rough Opening:** 33" x 16 ⅜"  
(four blocks, or CMU)

One 32" x 16" unit certified for 800 sq. ft. of enclosed area for flood, and 204 sq. in. for ventilation

*\*Some assembly of frames required*

### Flood Vent Combination Models

Flood Vent Models are certified to provide insulated flood protection only. These models are used for a garage or conditioned space, where flood protection is required but ventilation is NOT desired. The flood door is constructed of solid stainless steel wrapped around an insulating foam core.



**Model #:** 1540-521

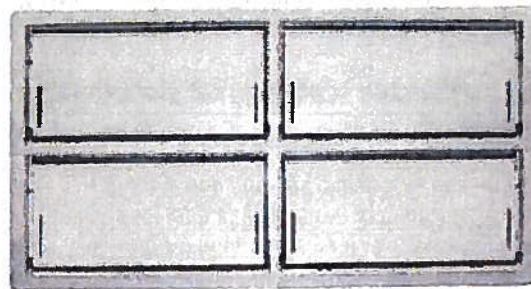
**Installation Type:** Masonry

**Style:** Insulated

**Dimensions:** 16" x 16"

**Rough Opening:** 16¼" x 16 ⅜"  
(two blocks, or CMU)

One 16" x 16" vent certified for 400 sq. ft. of enclosed area for flood



**Model #:** 1540-560

**Installation Type:** Masonry

**Style:** Insulated

**Dimensions:** 32" x 16"

**Rough Opening:** 33" x 16 ⅜"  
(four blocks, or CMU)

One 32" x 16" unit certified for 800 sq. ft. of enclosed area for flood

Standard Finish:



Stainless

Available Powder Coat Colors For Special Order:



White



Wheat



Gray



Black

Optional accessories for all models:

Fire Damper, Interior Trim Flange, Inner Sleeve and Pour in Place Buck Kits

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# Engineered Flood Openings Certificate

## To satisfy requirements of 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 best flood insurance rating.

The Smart VENT® and Flood VENT™ Foundation Flood Vent is certified as meeting the flood opening requirements for engineered openings as set forth in the Federal Emergency Management Agency's National Flood Insurance Program regulations (44 CFR 60.3(c)(5)) and ASCE 24-98, provided it is installed according to the those references, as summarized below. Flood openings are required in enclosures below elevated buildings, attached and detached garages, and accessory structures that meet the required limitations. For a copy of the report documenting this certification dated June 21, 2002, and a copy of the National Evaluation Service report NER 624, contact Smart VENT, Inc., at 877/441-8368 or visit:

[www.smartvent.com](http://www.smartvent.com)

I do hereby certify that the Smart VENT® Louvered Foundation Flood Vent and the Flood VENT™ Insulated Foundation Flood Vent opening (s) is designed for installation in 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 up to and including the base (100-year) flood. One Smart VENT® or one Flood VENT™ for every 200 Sq.Ft. of enclosed area will provide sufficient hydrostatic pressure equalization during a flood provided the installation limitations and instructions are followed as listed below. To calculate the required number of Smart VENTS® or Flood VENTS™ divide the Square Feet of enclosed area by 200.

Example: A 2000 Sq. Ft. enclosed area requires 10 vents.  $2000 \text{ Sq. Ft.} / 200 = 10 \text{ Vents}$

Signature *John P. Carl*  
Title SENIOR PROJECT ENGINEER  
Type of License PROFESSIONAL ENGINEER  
License Number 57795

\*Project Name \_\_\_\_\_  
\*Project Address \_\_\_\_\_  
\*Date Submitted \_\_\_\_\_  
\* Required Fields\*



### Installation Limitations and Instructions

1. The Smart VENT® or Flood VENT™ unit provides sufficient automatic equalization of hydrostatic pressure on walls and foundations of 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.
5. Installation must be in accordance with manufacturer's instructions.

### REFERENCE ONLY From FEMA TB 1-93 Guidance for Engineered Openings Openings in Foundation Walls

#### National Flood Insurance Program (NFIP) Technical Bulletin TB 1-93

"In situations where it is not feasible or desirable to meet the opening criteria stated previously, a design professional (registered engineer or architect) may design and certify openings. This section provides guidance for such engineered designs. For openings not meeting all four requirements for non-engineered openings listed on page 2 and 3 of TB 1-93, certification by a registered professional engineer or architect is required. Such certification must be submitted to, and kept on file by, the community. These certifications must assure community officials that the openings are designed in accordance with accepted standards of practice. A certification may be affixed to the design drawings or submitted separately. It must include appropriate certification language, and the name, title, address, signature, type of license, license number, and professional seal of the certifier." (TB 1-93 is available through Smart VENT® or online at [www.fema.gov](http://www.fema.gov))

Form SMRT100 Rev. July 2002

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