

NGVD 29

# 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 Joseph Fisher & Kathleen Fisher				Policy Number:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 102 North Buffalo Avenue				Company NAIC Number:	
City Ventnor City		State New Jersey		ZIP Code 08406	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Block 178 Lot 30					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>					
A5. Latitude/Longitude: Lat. <u>39°20'15.2"</u> Long. <u>74°29'16.3"</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>7</u>					
A8. For a building with a crawlspace or enclosure(s):					
a) Square footage of crawlspace or enclosure(s) <u>977.00</u> sq ft					
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>7</u>					
c) Total net area of flood openings in A8.b <u>1400.00</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>N/A</u> sq ft					
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>					
c) Total net area of flood openings in A9.b <u>N/A</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 City of Ventnor City - 345326			B2. County Name Atlantic County		B3. State New Jersey
B4. Map/Panel Number 345326 0001	B5. Suffix B	B6. FIRM Index Date 06-18-1971	B7. FIRM Panel Effective/ Revised Date 09-15-1983	B8. Flood Zone(s) A8	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth) 10'
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. 102 North Buffalo Avenue			Policy Number:
City Ventnor City	State New Jersey	ZIP Code 08406	Company NAIC Number

**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: 6.45' (Corpscon 6.0.1) Vertical Datum: 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.

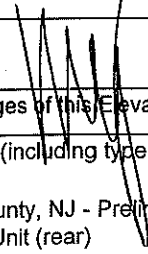
- |   |              |  |                                 |
|---|--------------|--|---------------------------------|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)   | <u>7.23</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| b) Top of the next higher floor   | <u>14.05</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 type="checkbox"/> feet            | <input type="checkbox"/> meters |
| d) Attached garage (top of slab)  | <u>N/A</u>   | <input 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>12.38</u> | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)  | <u>7.08</u>  | <input checked="" type="checkbox"/> feet | <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)   | <u>7.38</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>6.93</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 Marc J. Cifone	License Number 24GS04132900	<b>Place Seal Here</b>
Title President		
Company Name Lakeland Surveying, Inc.		
Address 117 Hibernia Avenue		
City Rockaway	State New Jersey	

Signature  Date 05-10-2018 Telephone (973) 625-5670 Ext.

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)  
Atlantic County, NJ - Preliminary FIRM Map No. 34001C0453F dated May 30, 2014 - Zone AE / BFE 9' (NAVD88) =10.23' (NGVD29)  
C2. e) AC Unit (rear)  
Side AC Unit elev. 12.82  
Duct work elev. 12.3

# 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 \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_ Telephone \_\_\_\_\_

Comments

Check here if attachments.

# 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>		
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City Ventnor City	State New Jersey	ZIP Code 08406	Company NAIC Number

## 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
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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 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 <i>Dino Cavalieri</i>	Title <i>C.F.W.</i>
Community Name <i>Ventnor</i>	Telephone <i>609 823-7987</i>
Signature <i>[Signature]</i>	Date <i>7-13-18</i>

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.

OMB No. 1660-0008  
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City Ventnor City	State New Jersey	ZIP Code 08406	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

Photo One Caption FRONT LEFT - June 18, 2018

Clear Photo One

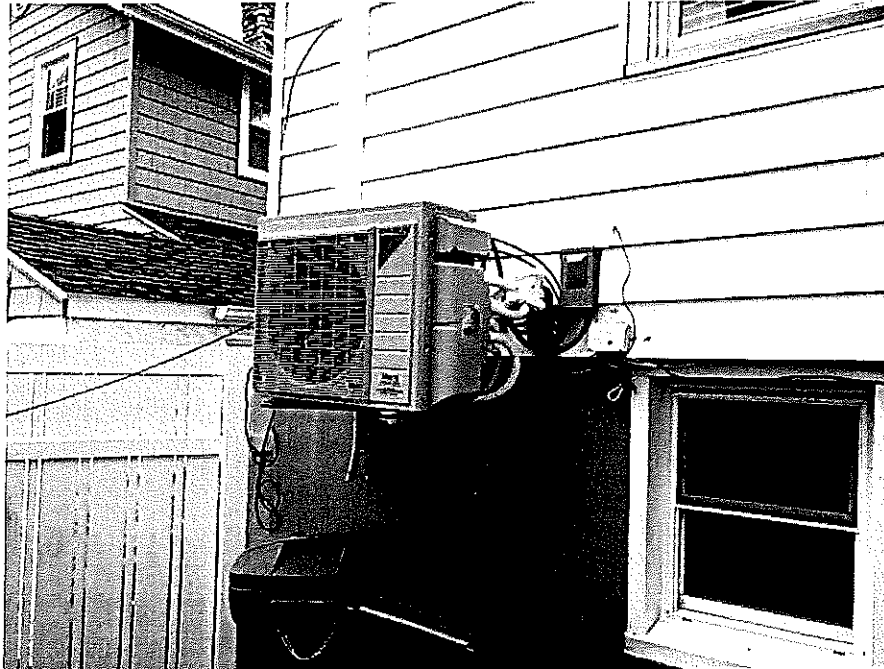


Photo Two

Photo Two Caption REAR LEFT - June 18, 2018

Clear Photo Two

**ELEVATION CERTIFICATE**

**BUILDING PHOTOGRAPHS**

Continuation Page

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>
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City Ventnor City	State New Jersey	ZIP Code 08406	Company NAIC Number

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 Three

Photo Three Caption FRONT RIGHT - June 18, 2018

Clear Photo Three



Photo Four

Photo Four Caption REAR RIGHT - June 18, 2018

Clear Photo Four

SECTION 08 95 43

FLOOD VENTS

**\*\* NOTE TO SPECIFIER \*\*** Smart Vent Products, Inc.; Foundation flood venting system products.

This section is based on the products of Smart Vent Products, Inc., which is located at:  
430 Andbro Dr. Unit 1

Pitman, NJ 08071

Tel: 877-441-8368

Email: [request\\_info \(info@smartvent.com\)](mailto:request_info(info@smartvent.com))

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

[ [Click Here](#) ] for additional information.

Smart Vent Products, Inc. is the worldwide leading manufacturer of foundation flood venting systems and takes pride in having the a FEMA-Accepted and ICC-ES Certified flood vent product line. Founded in 2001, products are made in the United States out of marine grade 316 stainless steel. Smart Vent Products offers both wet and dry floodproofing products with solutions for any application, whether it is residential or commercial.

Smart Vent Products has a complimentary Plans Review Division where a team of Certified Floodplain Managers and Engineers will customize a floodproofing layout on your plans, run a Flood Zone Determination, check compliance and potential flood insurance rates, and more. Get started today by sending your Flood Zone plans to [plans@smartvent.com](mailto:plans@smartvent.com).

PART 1 GENERAL

1.1 SECTION INCLUDES

**\*\* NOTE TO SPECIFIER \*\*** Delete items below not required for project.

- A. Flood vents.

1.2 RELATED SECTIONS

**\*\* NOTE TO SPECIFIER \*\*** Delete any sections below not relevant to this project; add others as required.

- A. Section 03 30 00 - Cast-in-Place Concrete.
- B. Section 04 05 19.13 - Masonry Control and Expansion Joints.
- C. Section 04 40 00 - Stone Assemblies.
- D. Section 04 40 00 - Stone Assemblies.
- E. Section 06 10 00 - Rough Carpentry.
- F. Section 07 90 00 - Joint Protection.
- G. Section 08 36 16 - Single-Panel Doors.
- H. Section 10 71 00 - Exterior Protection.

1.3 REFERENCES

**\*\* NOTE TO SPECIFIER \*\*** Delete references from the list below that are not actually required by the text of the edited section.

- A. ASCE/SEI 24-98, Flood Resistant Design and Construction.
- B. ASCE/SEI 24-05, Flood Resistant Design and Construction.
- C. ASCE/SEI 24-14, Flood Resistant Design and Construction.
- D. FEMA, 44-CFR, Part 59-60 and 60.3 National Flood Insurance Program (NFIP).
- E. FEMA/FIA-TB 1-2008, Openings in Foundation Walls and Walls of Enclosures

for Buildings Located in Special Flood Hazard Areas.

- F. **NER-624, National Evaluation Report No. NER-624. July 2007.**
- G. **International Code Council ICC-ES Acceptance Criteria for Automatic Foundation Flood Vents (AC-364). October 2007**
- H. **International Code Council ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC-364). October 2013.**
- I. **Federal Emergency Management Association's MEMO W-08086, October 2008**
- J. **UL - Test for Fire Dampers in conjunction with flood vents.**

#### 1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. **SMART VENT Products Flood Vents are Engineered Openings comply with the following:**
  - 1. **Certifications:**
    - a. **International Code Council - Evaluation Service Report (ESR-2074) including Florida Building Code Supplement, California Building and Residential Code Supplement.**
    - b. **Florida Building Product Approval (FL5822) approved for use in High Velocity Hurricane Zones (HVHZ).**
  - 2. **Compliance:**
    - a. **ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364).**
    - b. **FEMA Technical Bulletin 1: Openings in Foundation Walls and Walls of Enclosures (TB-1).**
    - c. **NFIP Bulletin W-08086.**
    - d. **NFIP Flood Insurance Manual.**
    - e. **American Society of Civil Engineers: Flood Resistant Design and Construction (ASCE 24-14).**
    - f. **International Residential Codes (IRC)**
    - g. **International Building Codes (IBC)**
    - h. **Florida Building Code (FBC)**
    - i. **California Building and Residential Code (CBC and CRC).**

#### 1.5 SUBMITTALS

- A. **Submit under provisions of Section 01 30 00 - Administrative Requirements.**
- B. **Product Data: Manufacturer's data sheets on each product to be used, including:**
  - 1. **Preparation instructions and recommendations.**
  - 2. **Storage and handling requirements and recommendations.**
  - 3. **Installation methods.**
- C. **Manufacturer's Certificates: Certify products meet or exceed specified requirements.**

#### 1.6 QUALITY ASSURANCE

- A. **Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum 5 years documented experience.**
- B. **Installer Qualifications: Installer with experience on projects of a similar size and scope with similar installation conditions.**

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. **Deliver and store materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.**
- B. **Store products in clean, dry area indoors until ready for installation. Store materials in accordance with manufacturer's instructions.**



- C. Protect materials and finish from damage during handling and installation.

## 1.8 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

## 1.9 WARRANTY

- A. Provide the manufacturer's limited 15 year warranty.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Smart Vent Products, Inc., which is located at: 430 Andbro Dr. Unit 1; Pitman, NJ 08071; Tel: 877-441-8368; Email: [request info \(info@smartvent.com\)](mailto:requestinfo@smartvent.com); Web: [www.smartvent.com](http://www.smartvent.com)

**\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

**\*\* NOTE TO SPECIFIER \*\* Edit the following paragraphs as required and applicable to project requirements. Select the type and the model required and delete those not required..**

### 2.2 FLOOD VENTS

- A. General: Vents are constructed of Marine Grade 316 Stainless Steel formed and smooth-welded with a rigid construction. Frames are designed for installation in masonry, concrete, or framed walls, stud walls, garage doors and metal panels. Vents have a pivoting door assembly that is fitted with two patented sealed floats that provide vermin protection and immediately and automatically release the door upon contact with rising water to relieve unbalanced lateral forces on foundation walls. All flood vents are required to work bi-directionally, without human intervention.

- B. Dual Function Flood Vent Series: Provide both flood protection and natural air ventilation. Louvered blades are temperature controlled with a bimetal coil and the screen is vermin resistant:

1. SMART VENT Products Model # 1540-510: Ventilated with Louvered Blades and Screen.
  - a. Flood Coverage: 200 sq.ft.
  - b. Air Ventilation: 51 sq.in.
  - c. Size: 16 inches W by 8 inches H.
  - d. Rough Opening: 16-1/4 inches W by 8-1/4 inches H.
2. SMART VENT Products Model # 1540-511 Double or Stacking Model: Ventilated with Louvered Blades and Screen.
  - a. Flood Coverage: 400 sq.ft.
  - b. Air Ventilation: 102 sq.in.
  - c. Size: 16 inches W by 16 inches H.
  - d. Rough Opening: 16-1/4 inches W by 16-3/8 inches H.
3. SMART VENT Products Model # 1540-150202 (1540-0039) 2 x 2 Multi-frame: Ventilated with Louvered Blades and Screen.
  - a. Flood Coverage: 800 sq.ft.
  - b. Air Ventilation: 204 sq.in.
  - c. Size: 32-1/2 inches W by 16 inches H.
  - d. Rough Opening: 33 inches W by 16-3/8 inches H.
4. SMART VENT Products One Piece Multi-Frame Model:
  - a. Amount of vents wide: \_\_\_\_\_ (No more than six)
  - b. Amount of vents high: \_\_\_\_\_ (No more than three)

- c. Flood Coverage: \_\_\_\_\_ sq.ft. (Amount of vents multiplied by 200)
- d. Air Ventilation: \_\_\_\_\_ sq.in. (Amount of vents multiplied by 51)

**C. Insulated Series: Provide flood protection only. Styrofoam insulation with perimeter weatherstripping.**

1. **FLOOD VENT Products Model # 1540-520: Flush or Solid Insulated Door.**
  - a. Flood Coverage: 200 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 16 inches W by 8 inches H.
  - d. Rough Opening: 16-1/4 inches W by 8-1/4 inches H.
2. **FLOOD VENT Products Model # 1540-521 Stacking Model: Flush or Solid Insulated Doors.**
  - a. Flood Coverage: 400 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 16 inches W by 16 inches H.
  - d. Rough Opening: 16-1/4 inches W by 16-3/8 inches H.
3. **FLOOD VENT Products Model # 1540-150202 (1540-0239) 2 x 2 Multi-frame: Flush or Solid Insulated Door.**
  - a. Flood Coverage: 800 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 32-1/2 inches W by 16 inches H.
  - d. Rough Opening: 33 inches W by 16-3/8 inches H.
4. **FLOOD VENT Products #1540-570 Wood Stud Wall Model: Flush or Solid Insulated Doors.**
  - a. Flood Coverage: 200 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 14-1/2 inches W by 8-3/4 inches H.
  - d. Rough Opening: 14-1/2 inches W by 8-3/4 inches H.
5. **FLOOD VENT Products #1540-524 Overhead Garage Door Model: Flush or Solid Insulated Doors, standard finish powder-coated white.**
  - a. Flood Coverage: 200 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 16 inches W by 8 inches H.
  - d. Rough Opening: 16 inches W by 8 inches H.
6. **FLOOD VENT Products #1540-574 Overhead Garage Door Model: Flush or Solid Insulated Doors, standard finish powder-coated white.**
  - a. Flood Coverage: 200 sq.ft.
  - b. Insulated core R-Value: 8.34
  - c. Size: 14-1/2 inches W by 8-1/2 inches H.
  - d. Rough Opening: 14-1/2 inches W by 8-1/2 inches H.
7. **FLOOD VENT Products One Piece Multi-Frame Model:**
  - a. Amount of vents wide: \_\_\_\_\_ (No more than six)
  - b. Amount of vents high: \_\_\_\_\_ (No more than three)
  - c. Flood Coverage: \_\_\_\_\_ sq.ft. (Amount of vents multiplied by 200)

**\*\* NOTE TO SPECIFIER \*\* Fire dampers are used in conjunction with select vent. Select the Model required from the following paragraphs and delete those not required. Delete entirely if Fire Dampers are not required.**

**D. Fire Dampers: UL Rated.**

1. **Fire-Rated Dual Function Vent Model # 1540-530: 2 hour fire rated with fusible link damper. For use in masonry walls in conjunction with Dual Function Flood Vent Model #1540-510.**
2. **Fire-Rated Flow Thru Vent Model # 1540-530: 2 hour fire rated with fusible link damper. For use in masonry walls in conjunction with Insulated Series Vent Model #1540-520.**
3. **Fire-Rated Flow Thru Vent Model # 1540-537: 2 hour fire rated with fusible link damper. For use in wood walls in conjunction with Insulated Series Vent Model #1540-570.**

**\*\* NOTE TO SPECIFIER \*\* Select the accessories required from the following paragraphs and delete those not required. Stainless steel straps are standard and provided with each vent.**

**E. Accessories:**

1. **Installation Clips, four for each vent, with the exception for Wood Wall,**

Overhead Door, and Multi-frame models.

2. Hurrbond or equivalent adhesive for masonry or concrete surfaces.
3. Adjustable wrench for thru-bolted models and screwdriver for stud wall models.
4. Trim and Sleeves: Sleeves for use in 'un-filled' masonry and for, Fire Walls where 'air-space' is required on Exterior Walls and to finish off the inside of openings:
  - a. Adjustable Sleeve/Trim #1540-531-12: 8 inches to 12 inches.
  - b. Adjustable Sleeve/Trim #1540-531-15: 12 inches to 15 inches.
  - c. Wood Wall Model 1540-570 Interior Trim Flange #1540-573, 4 inch.
  - d. Wood Wall Model 1540-570 Interior Trim Flange #1540-573, 9 inch.
  - e. Vinyl Buck(s) #1540-800 Series for new poured concrete walls.

**\*\* NOTE TO SPECIFIER \*\*** Powder coat finish is optional. Delete if not required.

F. Powder-Coat Finish with Color as follows:

**\*\* NOTE TO SPECIFIER \*\*** Select color required and delete those not required, Check with Factory for availability of other colors.

1. Black
2. White
3. Gray
4. Wheat
5. Custom

G. Sealant: Provide joint sealers as specified in Section 07 90 00 - Joint Protection. Only Fire-Rated sealant shall be used on Fire-Rated walls or openings.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Verify vent locations are ready to receive work, and dimensions are as indicated on shop drawings or as instructed by manufacturers.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Review and coordinate setting drawings, templates, and related items that are to be embedded in concrete and masonry.
- C. Verify that no obstructions exist that will interfere with the proper operation of the vents.
- D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install vents in at least two different walls spaced evenly around foundation perimeter, and located a maximum of 12 inches higher than the, interior or exterior grade, to the bottom of vent.
- C. Install vents plumb, level, square, true to line, and rigid.
- D. Attach vents securely in place using fasteners supplied or approved by manufacturer.

E. Separate incompatible materials to prevent galvanic corrosion.

**\*\* NOTE TO SPECIFIER \*\*** Select one of the following paragraph as required to suit the

project conditions and delete those not applicable.

- F. Install one single height flood vent for every 200 sq. ft. of enclosed space below floodplain.
- G. Install one double height flood vent for every 400 sq. ft. of enclosed space below floodplain.
- H. Install one quad assembly flood vent for every 800 sq. ft. of enclosed space below floodplain.
- I. Install one multi-frame for every \_\_\_\_\_ sq. ft. of enclosed space below the floodplain.
- J. Adjust flood vents for proper operation.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

3.5 SCHEDULES

**\*\* NOTE TO SPECIFIER \*\*** Retain Paragraph below if required to suit project requirements. Identify products by name on the Drawings or use this paragraph to define the location of each type of material to be used. The following are some examples of schedule references. Edit as required to suit project or delete and identify products on the Drawings.

- A. :
- B. :

END OF SECTION