Permit No. 15 158844 00 81

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

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

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 Geraldine Dworaczyk & Doug Vogt	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #1801 Chadwick Road	Company NAIC Number:

City	State	ZIP Code
Englewood	Florida	34223

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Lot 912, Englewood Gardens, Unit 5, P.B. 4, Pgs. 72 & 73, Sarasota County, Florida. (Tax Parcel 0487130003)

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential

A5. Latitude/Longitude: Lat. 27° 00.023' Long. 82° 23.924' Horizontal Datum: ☐ NAD 1927 ☒ 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 6

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 above adjacent grade 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:

a) Square footage of attached garage 1,892 sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 11

c) Total net area of flood openings in A9.b 1,496 sq in

d) Engineered flood openings? ☒ Yes ☐ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
Sarasota 125144	Sarasota	Florida

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
12115 C 0344	F	11/04/2016	11/04/2016	AE	12.00'

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/Source:

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source:

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: ☐ CBRS ☐ OPA

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City Englewood	State Florida	ZIP Code 34223	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: Sarasota County BM 485-B Vertical Datum: NGVD 29 (Converted to NAVD88)

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)	8.9	☒ feet ☐ meters
b) Top of the next higher floor	19.3	☒ feet ☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☒ feet ☐ meters
d) Attached garage (top of slab)	8.9	☒ feet ☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	12.9	☒ feet ☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	8.4	☒ feet ☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	8.5	☒ feet ☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	8.3	☒ feet ☐ 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 Timothy A. Terhune	License Number LS 6060		Place Seal Here
Title Professional Surveyor & Mapper			
Company Name TCTS, Inc.			
Address 1990 Allen Street			
City Englewood	State Florida	ZIP Code 34223	
Signature Timothy A. Terhune	Date 12/28/2016	Telephone (941) 474-4300	

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)

Item C2(e) Consists of Exterior A/C Unit on Raised Steel Rack, Elevation = 12.9. (NAVD 1988).

Property has 11 Engineered Flood Vents (See Engineering Certification).

Elevation Converted from NGVD 1929 to NAVD 1988 Using Conversion Table on FIRM Panel.

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.

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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
15-158844		

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.

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

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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.

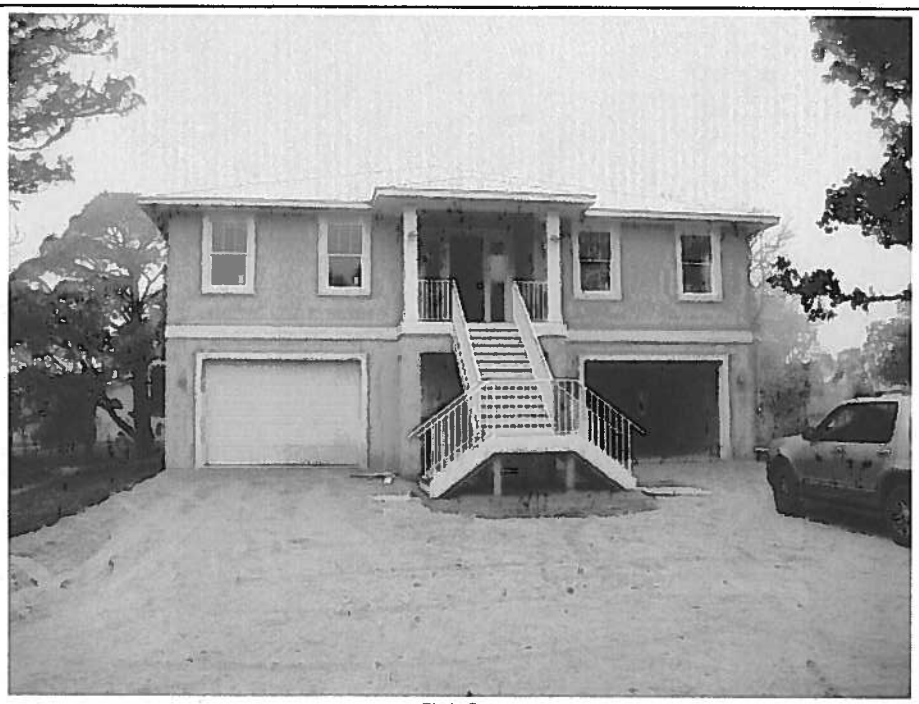

Photo One

Photo One Caption: Front View

Photo Two

Photo Two Caption: South View

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS
Continuation Page

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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.

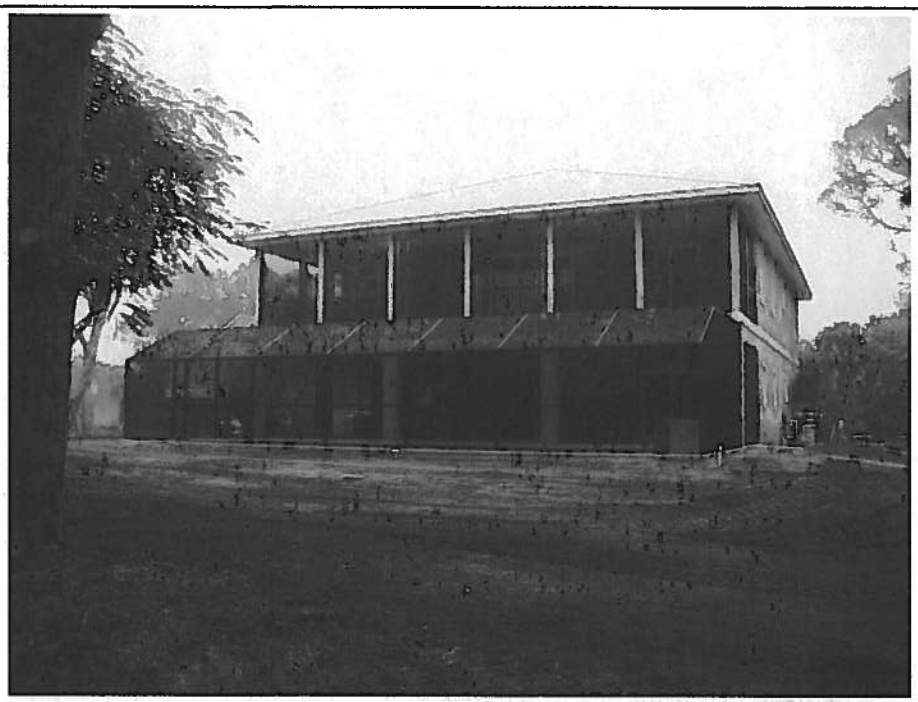


Photo One

Photo One Caption	Rear View

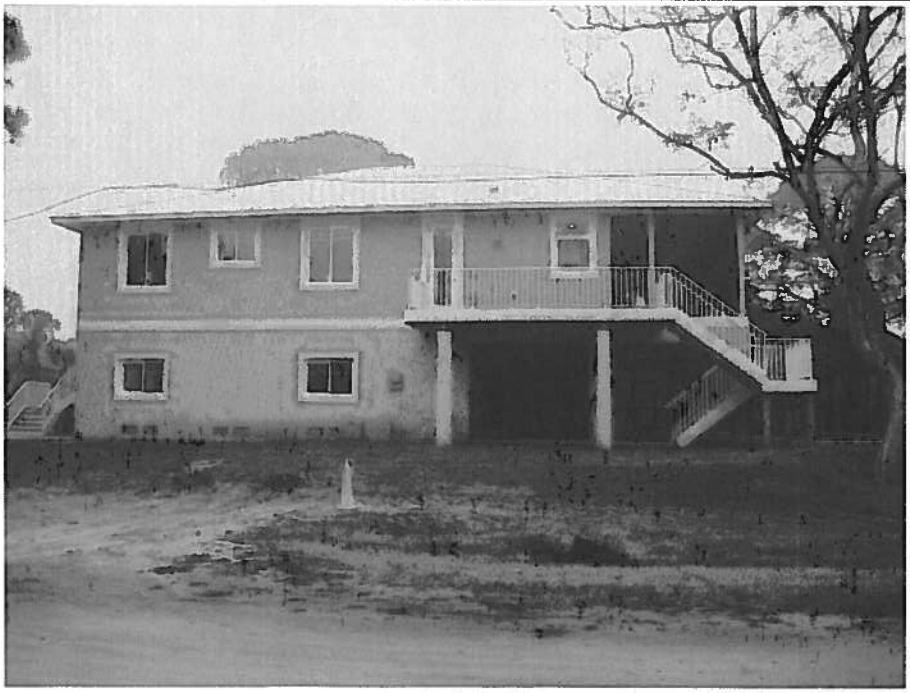


Photo Two

Photo Two Caption	North View

Product Approval
USER: Public User

JOB SITE PLANS
This set of plans must be kept on the job site of work at all times. per Sarasota County Ordinance
Sarasota County Construction and Property Standards Department

FL #	FL5822-R3
Application Type	Revision
Code Version	2014
Application Status	Approved
Comments	
Archived	
Product Manufacturer Address/Phone/Email	Smart Vent Products, Inc. 430 Andbro Dr Unit 1 Pitman, NJ 08071 (877) 441-8368 info@smartvent.com
Authorized Signature	Michael Graham info@smartvent.com
Technical Representative Address/Phone/Email	Michael J. Graham 20 Warrick Ave. Glassboro, NJ, NJ 08028 (888) 628-4115 mike@smartvent.com
Quality Assurance Representative Address/Phone/Email	
Category	Structural Components
Subcategory	Products Introduced as a Result of New Technology
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ✓ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Hermes F. Norero P.E.
Florida License	PE-73778
Quality Assurance Entity	Architectural Testing, Inc.
Quality Assurance Contract Expiration Date	12/31/2015
Validated By	Locke Bowden ✓ Validation Checklist - Hardcopy Received
Certificate of Independence	FL5822_R3_COI_Smart Vent COI SS 2015-02-23.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1612.5(1)(1.2) 1709.2

RECEIVED
JAN 25 2016
DEVELOPMENT SERVICES PERMITTING/INSPECTION

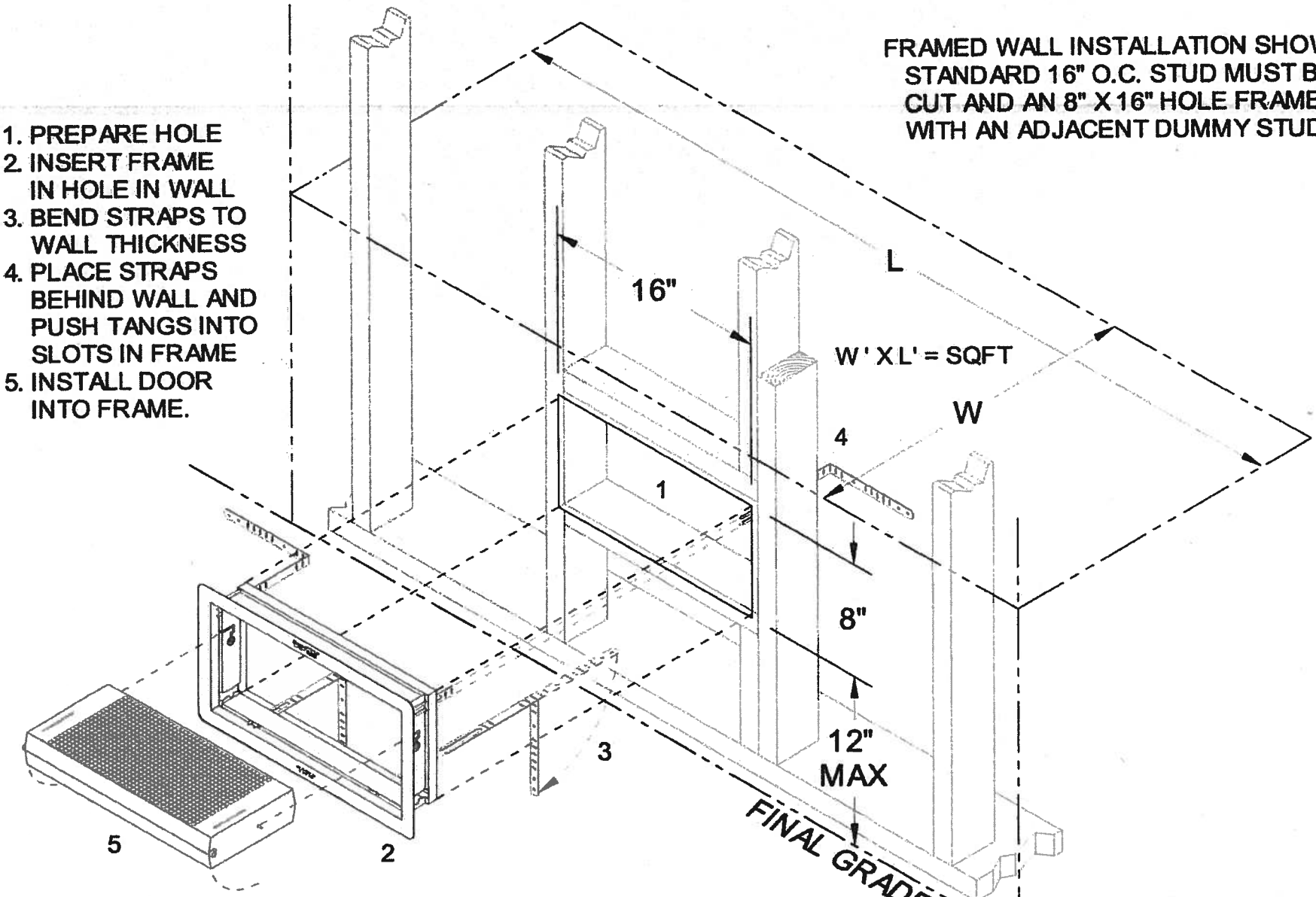
Product Approval Method	Method 2 Option B
Date Submitted	02/26/2015
Date Validated	02/27/2015
Date Pending FBC Approval	03/03/2015
Date Approved	04/15/2015

Summary of Products

FL #	Model, Number or Name	Description
5822.1	Model #1540-510	SmartVent
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_I_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS 2015-02-26.pdf Created by Independent Third Party: Yes
5822.2	Model #1540-514	SmartVent Overhead Door Model
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_II_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS 2015-02-26.pdf Created by Independent Third Party: Yes
5822.3	Model #1540-520	FloodVent
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_II_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS 2015-02-26.pdf Created by Independent Third Party: Yes
5822.4	Model #1540-524	FloodVent Overhead Door Model
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_II_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS 2015-02-26.pdf Created by Independent Third Party: Yes
5822.5	Model #1540-570	Wood Wall FloodVent
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_II_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS 2015-02-26.pdf Created by Independent Third Party: Yes
5822.6	Model #1540-574	Wood Wall FloodVent Overhead Door Model
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** +100/-100 **Other:** One vent may be used for up to 200 sq. ft. of interior space (minimum 2).		**Installation Instructions** FL5822_R3_II_Installation_Instructions.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes **Evaluation Reports** FL5822_R3_AE_PER3229 SS 2015-02-23.pdf FL5822_R3_AE_SmartVent - Impact Requirements Letter SS

1. PREPARE HOLE
2. INSERT FRAME IN HOLE IN WALL
3. BEND STRAPS TO WALL THICKNESS
4. PLACE STRAPS BEHIND WALL AND PUSH TANGS INTO SLOTS IN FRAME
5. INSTALL DOOR INTO FRAME.

FRAMED WALL INSTALLATION SHOWN
STANDARD 16" O.C. STUD MUST BE CUT AND AN 8" X 16" HOLE FRAMED WITH AN ADJACENT DUMMY STUD.

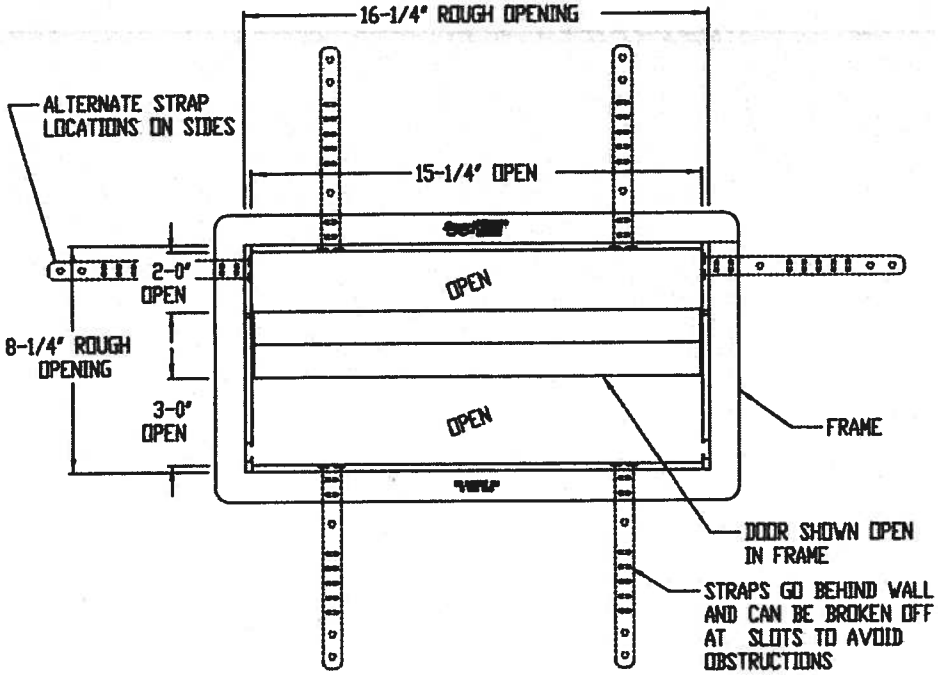


SQFT / 200 = # OF VENTS REQUIRED (MINIMUM 2)
EQUALLY SPACE AROUND ALL PERIMETER WALLS
CAN ONLY BE USED FOR THE CERTIFIED SMART VENT® AND FLOODVENT tm

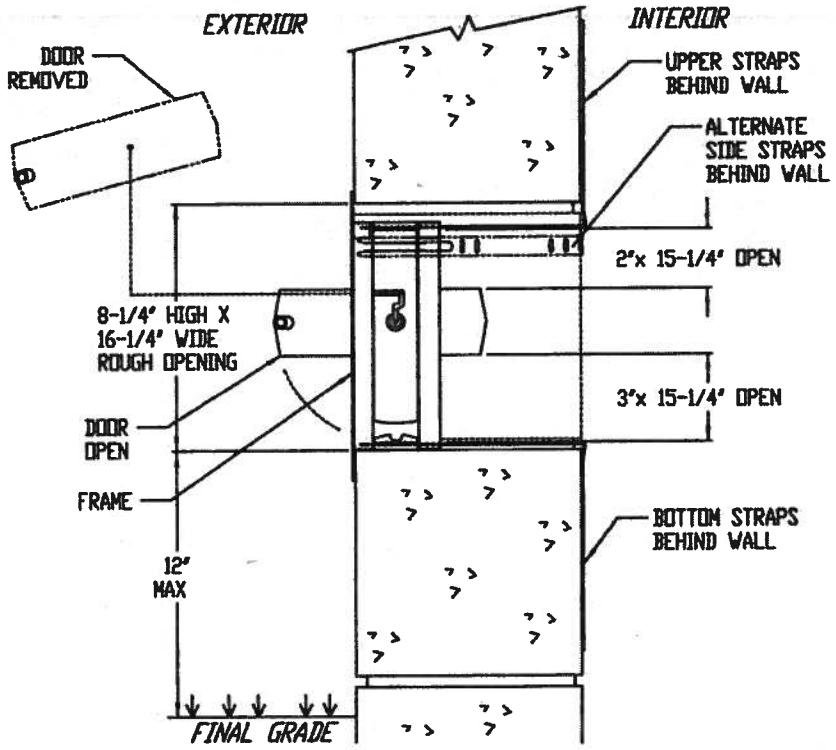
SMART VENT®
Go with the flow™

888-628-4115
www.smartvent.com

Smart VENT® BLOCK OR POURED INSTALLATION INSTRUCTIONS



EXTERIOR VIEW

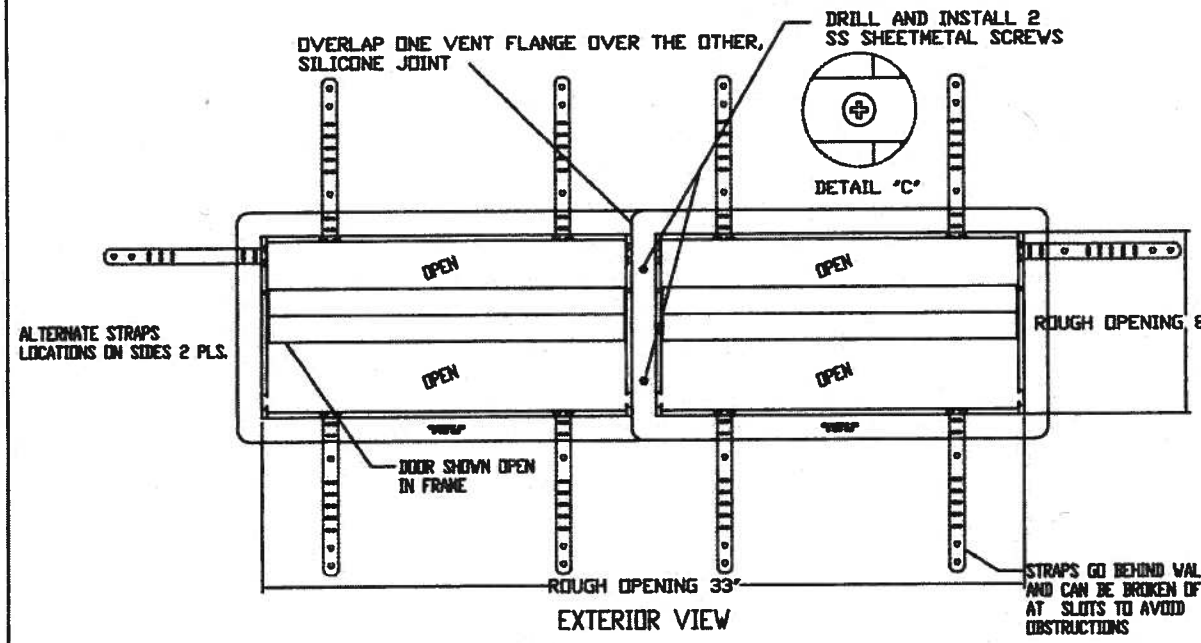


SIDE SECTION VIEW

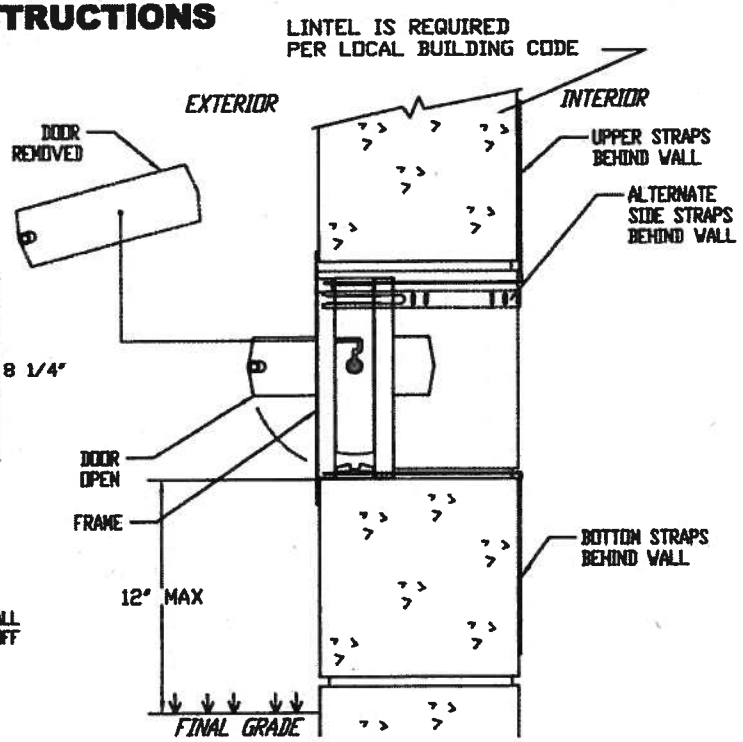
1. Prepare a CLEAN 16-1/4" wide by 8-1/4" high rough opening for each vent (1 block wide x 1 block high) with the bottom of the hole no more then 12" above finished grade.
2. Measure wall thickness and bend (more than 90°) 4 straps at nearest slot to the measurement from pointed end.
3. Remove door from frame. (turn upside down, rotate bottom of door outward and slide out of slots)
4. Insert two straps into two top sets of slots in frame from rear. After pushing teeth through rear set slots, ONLY PUSH STRAPS ONE CLICK INTO FRONT SLOTS. Straps should have bent legs pointing up.
5. Caulk may be applied behind front frame flange. Tilt frame so top goes into wall opening first with strap legs going behind wall above opening. Push frame into opening so front flange is tight to face of wall.
6. Reach through frame opening and install two bent straps through two bottom sets of slots in frame, trapping wall between front flange and bent strap. Squeeze all straps tight. Frame should be flush to wall face and secure.
7. Check that frame is square and slots are clear of debris, mortar and caulk.
8. Install door into frame by grasping bottom of door (with plastic pins) and front (with smaller squares) facing up. Slide door into frame such that metal pins on each side slide into slots on sides of frame. Let the door slide down following the path of the slots, until they are at the bottom of the slots in the dimples.
9. Let the bottom of the door go so that the door rotates down into the frame. Check that door is latched on both sides.

Smart VENT®
888-628 4115
WWW.SMARTVENT.COM

Smart VENT® BLOCK OR POURED SIDE BY SIDE INSTALLATION INSTRUCTIONS



EXTERIOR VIEW



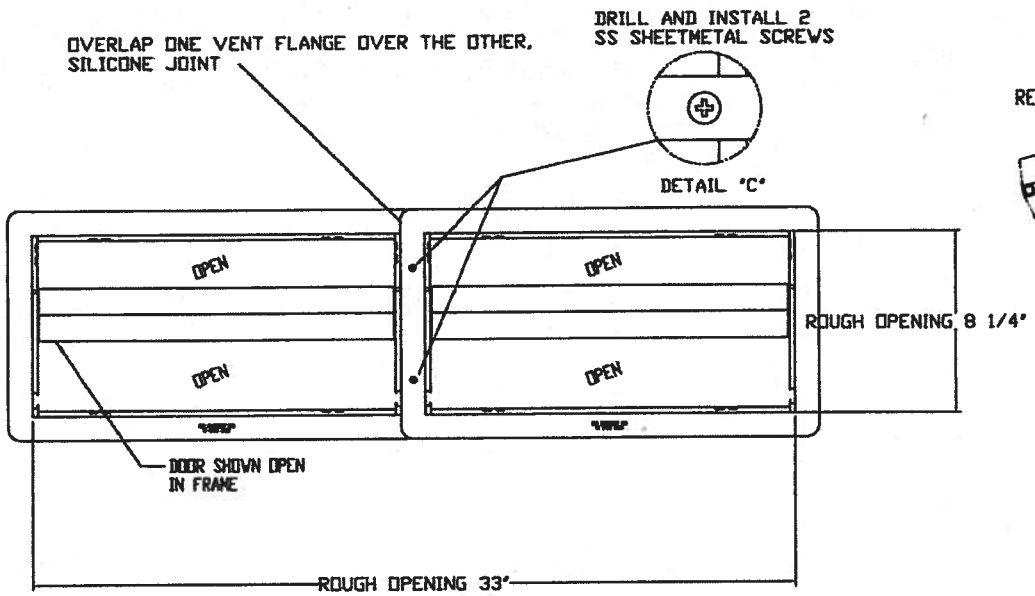
SIDE SECTION VIEW

1. Prepare a CLEAN 33 " wide by 8-1/4" high rough opening for each vent (2 block wide x 1 block high) with the bottom of the hole no more then 12" above finished grade.
2. Measure wall thickness and bend (more than 90°) 8 straps at nearest slot to the measurement from pointed end.
3. Remove door from frame. (turn upside down, rotate bottom of door outward and slide out of slots)
4. Insert four straps into two top sets of slots in frame from rear. After pushing teeth through rear set slots, ONLY PUSH STRAPS ONE CLICK INTO FRONT SLOTS. Straps should have bent legs pointing up.
5. With the two outside vent frames sandwiched together drill and screw the two frames together with 2 SS sheet metal screws.
6. Caulk or adhesive may be applied behind front frame flange. Tilt frame so top goes into wall opening first with strap legs going behind wall above opening. Push frame into opening so front flange is tight to face of wall.
7. Reach through frame opening and install two bent straps through two bottom sets of slots in frame, trapping wall between front flange and bent strap. Squeeze all straps tight. Frame should be flush to wall face and secure.
8. Check that frame is square and slots are clear of debris, mortar and caulk.
9. Install door into frame by grasping bottom of door (with plastic pins down) and the word "TOP" facing up. Slide door into frame such that metal pins on each side slide into slots on sides of frame. Let the door slide down following the path of the slots, until they are at the bottom of the slots in the dimples.
10. Let the bottom of the door go so that the door rotates down into the frame. Check that door is latched on both sides.
11. Insert two thin blades or cards into the float slots and unlatch the door to insure free functionality, then latch again.

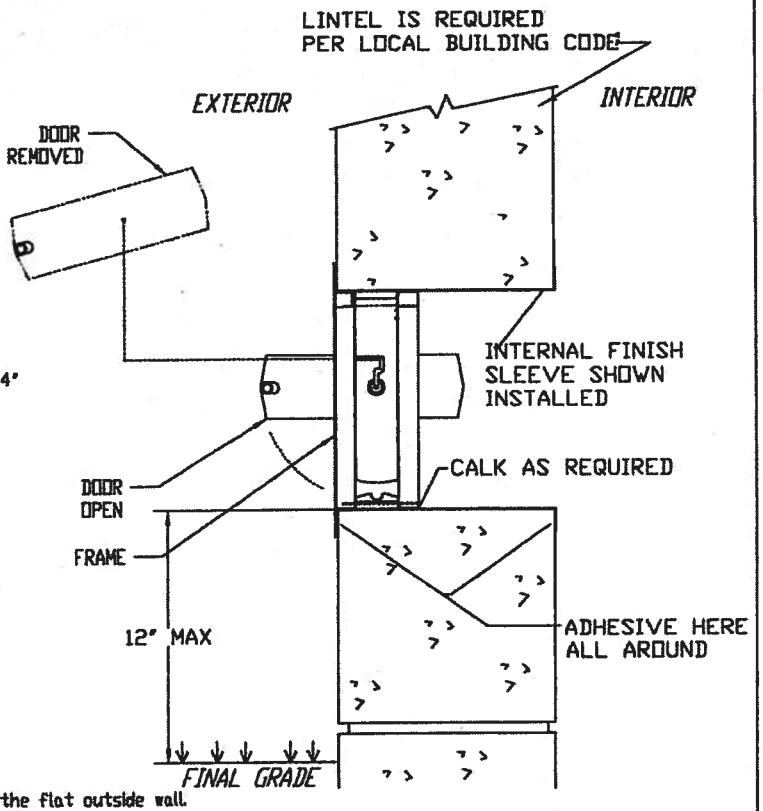
SIDEBYSIDEBLOCK.dwg 8-23-05

Smart VENT®
877-441 8368
WWW.SMARTVENT.COM

Smart VENT® BLOCK OR POURED SIDE BY SIDE WITH INSIDE SLEEVE INSTALLATION INSTRUCTIONS



EXTERIOR VIEW



SIDE SECTION VIEW

1. Prepare a CLEAN 33 " wide by 8-1/4" high rough opening for each vent (2 block wide x 1 block high) with the bottom of the hole no more then 12" above finished grade.
2. Remove door from frame. (turn upside down, rotate bottom of door outward and slide out of slots)
3. Dry fit the frames in place making sure there are no obstructions and that the front flange sits against the flat outside wall. Insert the inner sleeve from the inside of the building through the opening and over the vent frame.
4. With the two outside vent frames sandwiched together drill and screw the two frames together with 2 SS sheet metal screws
5. Apply construction adhesive around the front frame flange where shown. Do not apply adhesive to the inside of vent! and press in place.
6. Apply construction adhesive around the inside trim flange where shown. Do not apply adhesive to the inside of vent! and press in place.
7. Calk as required
8. Install door into frame by grasping bottom of door (with plastic pins down) and the word "TOP" facing up. Slide door into frame such that metal pins on each side slide into slots on sides of frame. Let the door slide down Following the path of the slots, until they are at the bottom of the slots in the dimples.
9. Let the bottom of the door go so that the door rotates down into the frame. Check that door is latched on both sides.
10. Insert two thin blades or cards into the float slots and unlatch the door to insure free functionality, then latch again.

SIDEBYSIDEBLOCKwsleeve.dwg 8-23-05

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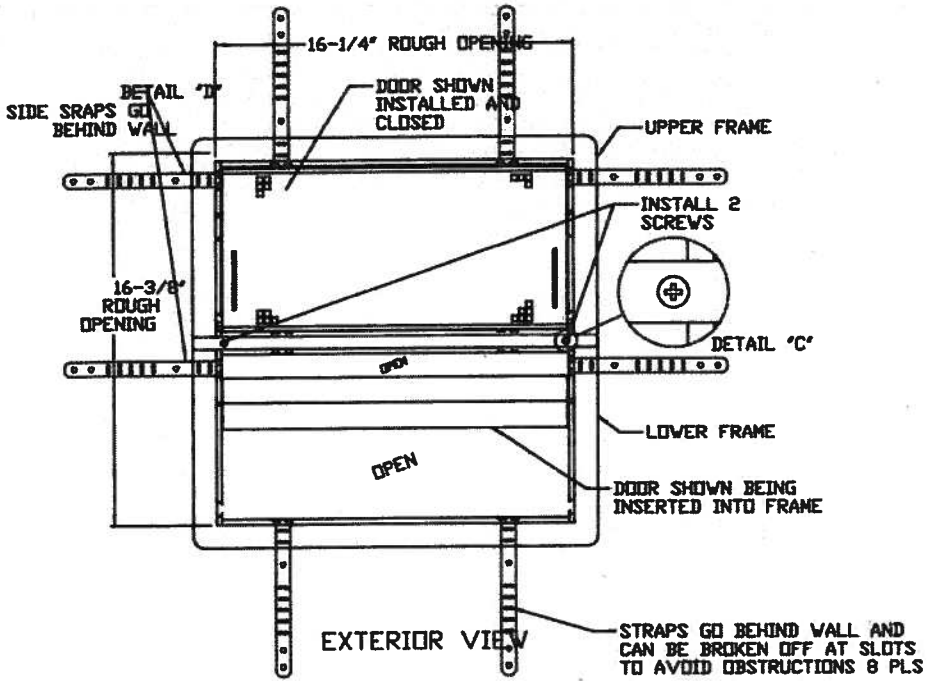
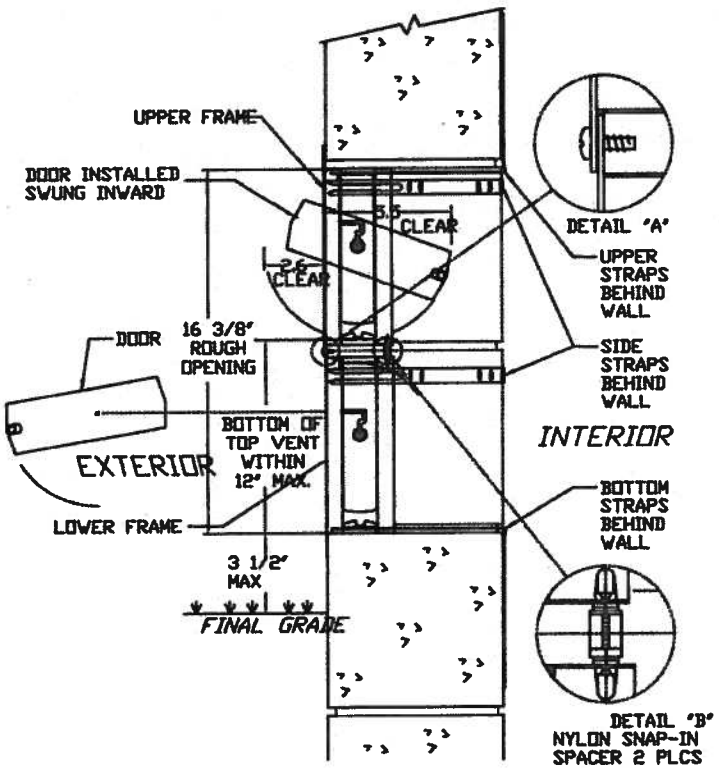
SMART VENT ® STACKING INSTRUCTIONS
MODELS 1540-511 AND 1540-521





SIDE SECTION VIEW

1. Prepare a CLEAN 16-1/4" wide by 16-3/8" high hole for each set of two stacking vents (1 block wide x 2 blocks high) with the bottom of the hole no more then 3.5" above finished grade.
2. Measure wall thickness and overbend (more than 90°) 8 straps at nearest slot to the measurement from pointed end.
3. Remove doors from frames. (turn upside down, rotate bottom of door outward and slide out of slots)
4. Assemble two frames together using two nylon spacers snapped into holes in rear of frames as shown in Detail "B". Place top frame (one with short bottom flange) over and in front of bottom frame (one with short top flange) and Fasten front of frames together with two self tapping screws as shown in Details "A" and "C". Do not over tighten screws.
5. Insert 2 straps into top slots of TOP frame. Straps should have bent legs pointing up. After pushing teeth through rear slots, ONLY PUSH STRAPS ONE CLICK INTO FRONT SLOTS, they will be tightened later in installation.
6. Chalk may be applied to back of flanges for a better seal to wall face. Place frame assembly into wall opening by sliding the top straps behind wall and resting frame bottom on bottom of wall opening. Press flanges tight to wall face.
7. Reach through bottom frame opening and install two bent straps into two bottom slots with the bent legs of the straps hanging down behind wall and trapping wall between front flange and bent strap. Squeeze tight to wall.
8. Install a strap on each side of both frame openings as shown in Detail "D". Install with bent leg pointing outward behind the wall and into slots on each of upper sides. Squeeze tight to wall. Now, squeeze top frame straps tight to wall.
9. Make sure both frames are flush to wall face, secure, square, level and all slots are clear of debris, mortar and caulk.
10. Hold doors from the bottom, parallel to ground with back facing ground and re-install into frames by inserting top first and letting metal pins find slots. Push all way back and allow door to drop and rotate down and both sides latch closed.

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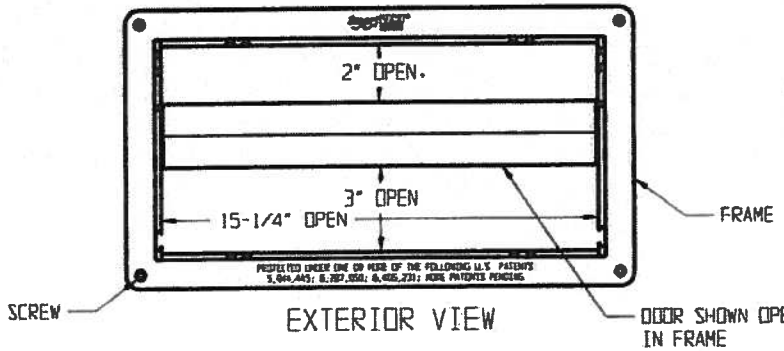
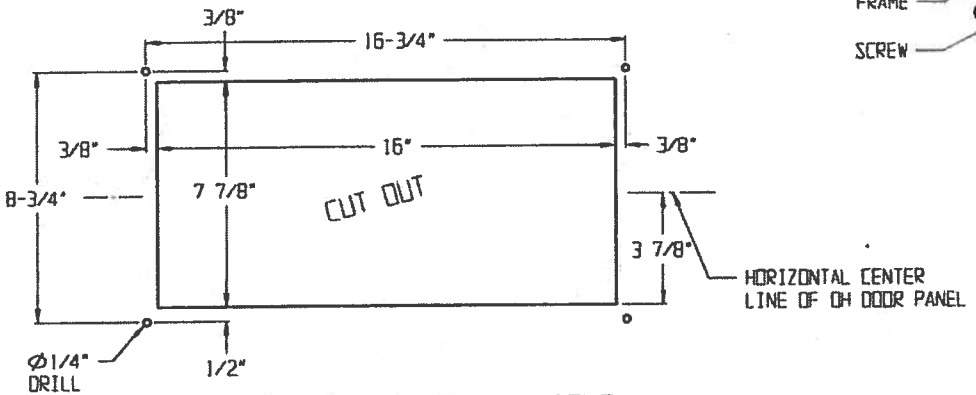
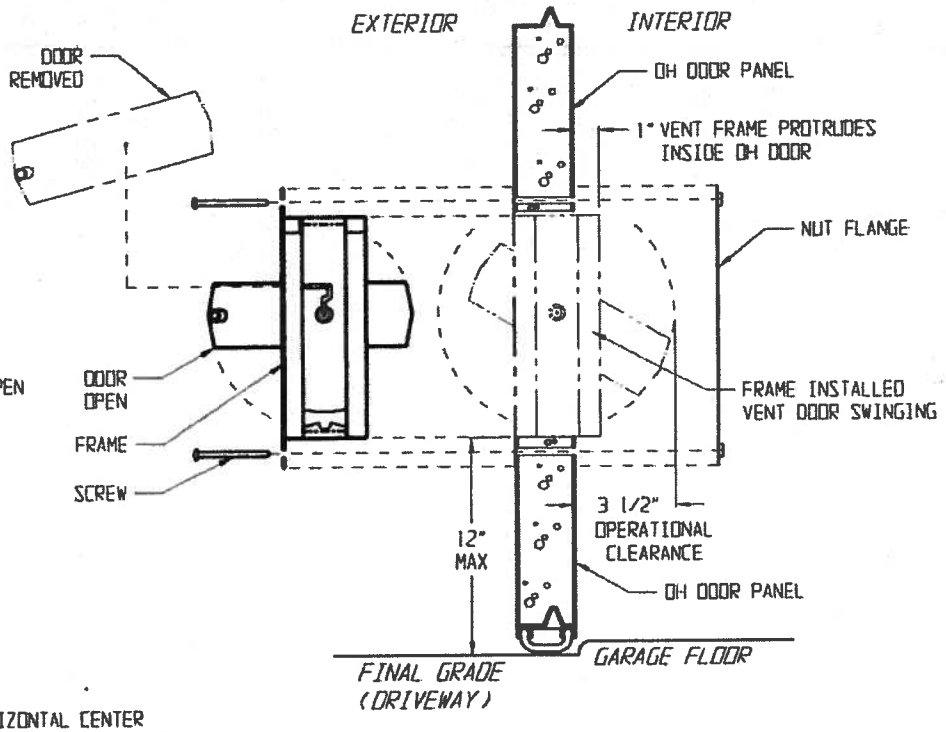
Smart VENT OVERHEAD DOOR INSTALLATION INSTRUCTIONS



EXTERIOR VIEW



PATTERN FOR OHD PANEL CUTOUT



SIDE SECTION VIEW

1. For each Vent cut a CLEAN, SQUARE, LEVEL 16" wide by 7-7/8" high hole completely though the botton Over Head (OH) Door Panel with the botton of the hole level and no more then 12" above finished grade (driveway). Looks best to center Vent vertically of door panel.
2. For each Vent drill four (4) 1/4 inch dianeter holes completely through door panel where shown. Vent frone may be used as a tenplate.
3. Clean all sharp netal edges and burrs fron opening. Brush away any loose styrofoon fron the opening.
4. Renove Vent door fron Vent frone. (turn upside down, rotate botton of door outward and slide out of frone slots)
5. Insert Vent frone into OH Door Panel with SERIAL NUMBER LABEL on the BOTTOM. Check alignnent of holes in Vent frone with holes drilled in OH door panel. Correct holes in OH Door panel if nessesory. Make sure Frone sits LEVEL and front flonge is FLUSH with the front of OH Door Panel. Caulk nay be applied behind Vent front frone flonge to seal Vent frone to face of OH Door Panel.
6. Place Nut Flonge on inside of Vent frone with nuts facing away fron OH Door. Insert 4 screws provided through front of Vent frone and through OH Door into Nut Flonge. Tighten screws to secure frone to OH Door but do not over tighten, deforning OH Door or Vent Frone.
7. Check that frone is square and level. Check that slots are clear of debris, netal shovings, styrofoon and caulk.
8. Install Vent door back into frone by grasping botton of Vent door (with plostic pins) and sliding the netal pins on each side of the Vent door into slots on the insides of frone. Let the Vent door slide down the path of the slots until they are at the botton in the dinples.
9. Let the botton of the Vent door go so that it rotates down into the Vent frone. Check that Vent door is latched on both sides.
10. Vent door should not open when OH door opens. Vent door only opens when in contact with flood water and OH Door is fully closed.

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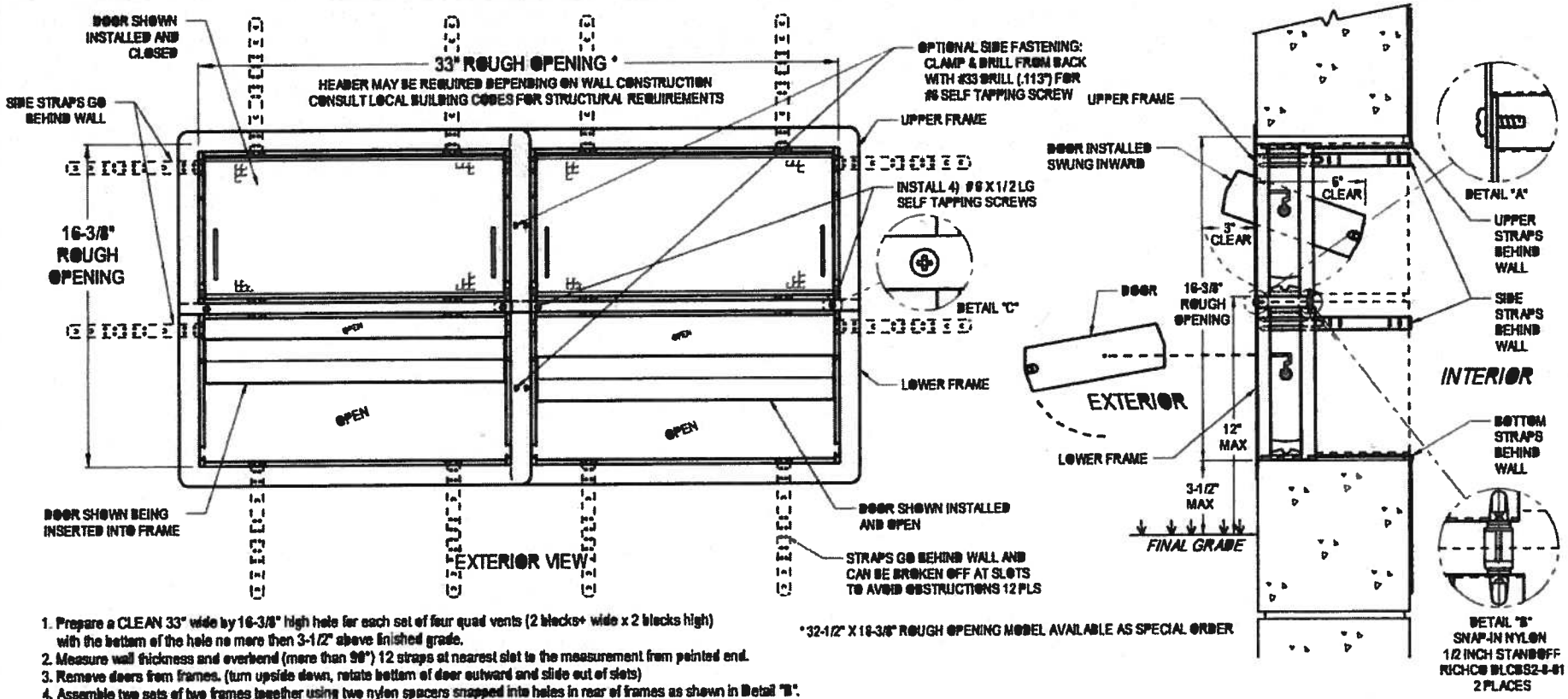

1. Prepare a CLEAN 33" wide by 16-3/8" high hole for each set of four quad vents (2 blocks+ wide x 2 blocks high) with the bottom of the hole no more then 3-1/2" above finished grade.
2. Measure wall thickness and overbend (more than 90°) 12 straps at nearest slot to the measurement from painted end.
3. Remove doors from frames. (turn upside down, rotate bottom of door outward and slide out of slots)
4. Assemble two sets of two frames together using two nylon spacers snapped into holes in rear of frames as shown in Detail "B". Place top frame (one with short bottom flange) over end in front of bottom frame (one with short top flange) and Fasten front of frames together with two self tapping screws as shown in Details "A" and "C". Do not over tighten screws.
5. Insert 2 straps into top slots of each TOP frame. Straps should have bent legs pointing up. After pushing teeth through rear slots, ONLY PUSH STRAPS ONE CLICK INTO FRONT SLOTS, they will be tightened later in installation.
6. Caulk may be applied to back of flanges for a better seal to wall face. Place frame assembly into wall opening by sliding the top straps behind wall and resting frame bottom on bottom of wall opening. Press flanges tight to wall face.
7. Reach through opening in bottom frames and install four bent straps into two bottom slots with the bent legs of the straps hanging down behind wall and trapping wall between front flange and bent strap. Squeeze tight to back of wall.
8. Install a strap on each side of frame assembly. Install with bent leg pointing outward behind the wall and into slots on each of upper sides. Squeeze tight to wall. Now, squeeze top frame straps tight to wall.
9. Make sure frames are flush to wall face, secure, square, level and all slots are clear of debris, mortar and caulk.
10. Hold doors from the bottom, parallel to ground with back facing ground and re-install into frames by inserting top first and letting metal pins find slots. Push all way back and allow door to drop and rotate down. Both sides should be latched closed.

* 32-1/2" X 16-3/8" ROUGH OPENING MODEL AVAILABLE AS SPECIAL ORDER

Smart VENT® QUAD INSTRUCTIONS

MODELS 1548-558 and 1548-568

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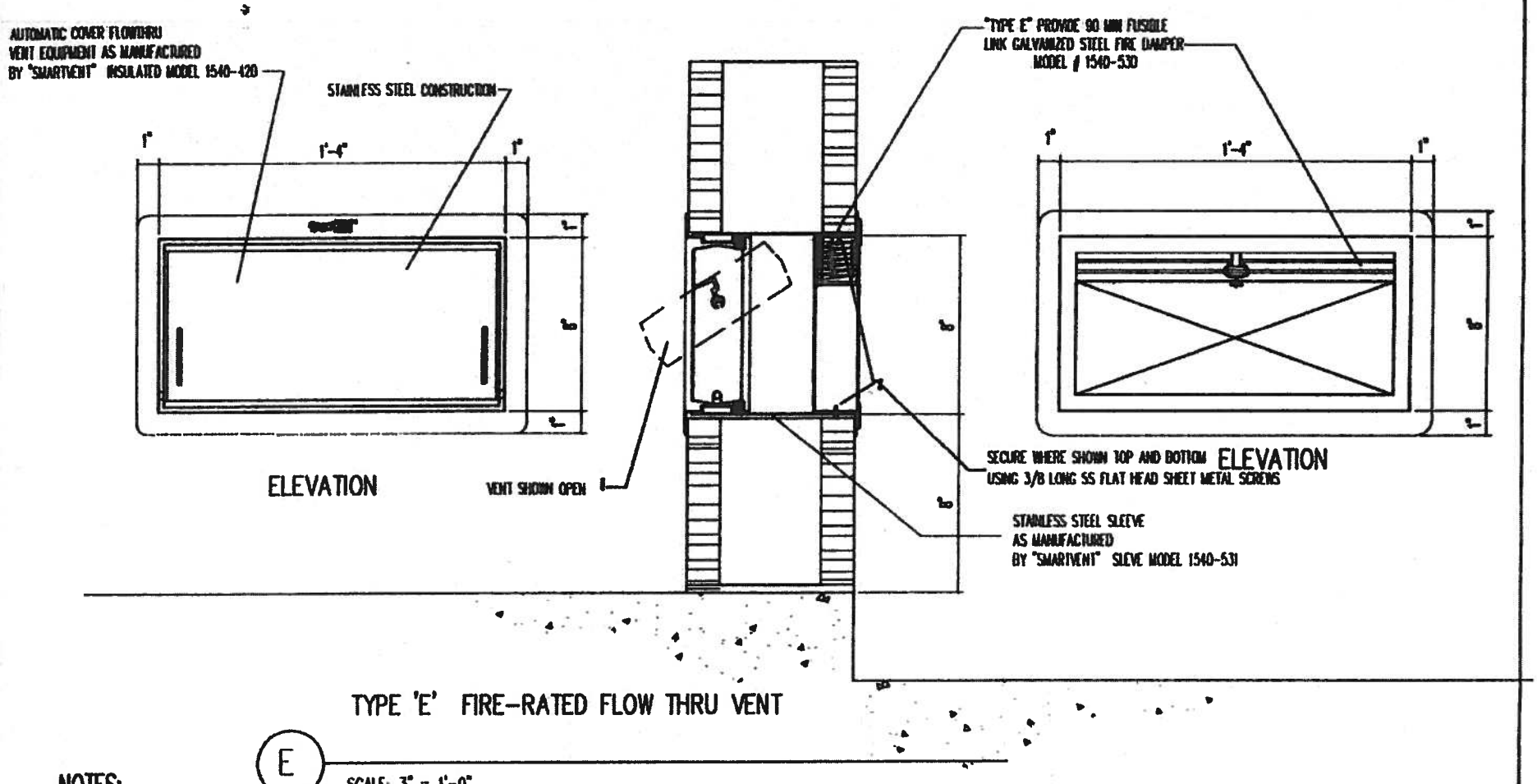
FIRE RATED SOLUTION – FLOOD VENT WITH FIRE RATED DAMPER
INSTALLATION INSTRUCTIONS



TYPE 'E' FIRE-RATED FLOW THRU VENT

E

SCALE: 3" = 1'-0"

NOTES:

APPLY FIRE RATED CAULK AROUND SLEEVE THEN SCREW DAMPER IN FOUR PLACES BOTH TOP AND BOTTOM – USE 3/8" MAX. LONG SCREWS–

INSTALL SLEEVE INTO 16 1/4 X 8 1/4 ROUGH OPENING FILL VOIDS WITH FIRE RATED CAULK

INSTALL FLOODVENT INTO OPPOSITE SIDE OF OPENING USING ADHESIVE

INSURE SLEEVE COVERS ANY INNER BLOCK OPENINGS

INSURE FLOOD VENT DOES NOT COME IN CONTACT WITH FIRE DAMPER WHILE BEING ROTATED FULLY IN BOTH DIRECTIONS

CONSULT YOUR LOCAL BUILDING CODE FOR SPECIFIC FIRE CODE REGULATIONS

FIRERATEDVENT.dwg 10-15-09

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