

# ICC Model VIC

## INSULATED DOUBLE WALL SPECIAL GAS VENT INSTALLATION AND MAINTENANCE INSTRUCTIONS

The ICC Model VIC is a listed venting system designed for venting commercial and industrial appliances, condensing appliances, category I, II, III, IV appliances.

For use on positive, neutral and negative pressures up to 15" w.c. (3.75 kPa.)

Sizes: 5" (76mm) to 24" (610mm) diameters

### WARNING

- A major cause of vent related fires is failure to maintain required clearances (air space) to combustible materials. It is of utmost importance that this venting system be installed only in accordance with these instructions. Do not fill the air space with insulating material.
- Contact local building or fire officials about restrictions and installation inspection in your area.

Do not begin installing the ICC Model VIC venting system until you have carefully read the appliance and vent system installation instructions.

Use only ICC Model VIC components. Failure to do so will void the certification and warranty of the product.

Keep these installation and operating instructions in a safe location for future reference.

- Examine all components for possible shipping damage prior to installation.
- Proper joint assembly is essential for a safe installation.
- Follow these instructions exactly as written.
- Check tightness of joints upon completion of assembly.
- This venting system must be free to expand and contract.
- This venting system must be supported in accordance with these instructions.
- Check for unrestricted vent movement through walls, ceilings, and roof penetrations.
- Different Manufacturers Have Different Joint Systems and Adhesives.
- Do Not Mix Pipe, Fittings, or Joining Methods from Different Manufacturers.

Tested and Listed to:  
UL 1738 / ULC S636  
by Underwriters Laboratories, Inc (Listing # MH46076)



ICC INDUSTRIAL CHIMNEY COMPANY INC.  
400 J.F. Kennedy, St. Jérôme  
Québec, Canada, J7Y 4B7  
Tel.: (450) 565-6336  
Fax: (450) 565-6519  
[www.icc-rsf.com](http://www.icc-rsf.com)

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## Model VIC, Insulated Double Wall Technical Specifications

### Material

The Model VIC insulated double wall vent is constructed of either stainless steel grade AL29-4C or 444 for the flue and stainless steel grade 430 for the casing. The vent is insulated with 1" of high temperature mineral fiber insulation. The formed gasket is made of high temperature silicone.

### Weight / Thickness

		3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"	18"	20"	22"	24"
Thickness (inch)	AL29 -4C/430	0.018" / 0.018"									0.018" / 0.025" *					
	444/430	0.018" / 0.018"									0.018" / 0.025" *					
Weight (lb/ft)	AL29 -4C/430	2.5	3.2	3.8	4.4	5.1	5.7	6.3	7.0	9.3	10.7	12.1	13.6	15.0	16.4	17.8
	444/430	2.5	3.2	3.8	4.4	5.1	5.7	6.3	7.0	9.3	10.7	12.1	13.6	15.0	16.4	17.8

On request, model VIC double wall vent can be built using 0.025" thickness stainless steel grade AL29-4C instead of 0.018".

\* In Canada the minimum outer casing thickness is 0.018".

### Clearance to Combustibles

Diameter	Maximum Appliance / Vent Rating	Fully Enclosed		Unenclosed	
		Vertical	Horizontal	Vertical*	Horizontal**
3" - 24"	550 °F	2"	n/a	2"	2"

\* Enclosed on 3 sides.

\*\* Enclosed on the ceiling and one side wall.

## Operation and Maintenance

KEEP YOUR VENT CLEAN. Your vent system should be examined annually by a qualified service company for the presence of soot or debris. Any accumulation should be removed. Also, the vent system should be inspected periodically for the following:

1. Any leakage of condensate or combustion by-product at joints should be removed.
2. A defective drain trap loop should be repaired to prevent any leakage of exhaust gases inside the building area.
3. Any sign of corrosion.

## General Installation Notes

1. Model VIC is to be installed in accordance with these installation instructions and with those of the appliance manufacturer.
2. Installation is to be in accordance with local building code requirements and National Codes.
3. Size the vent in accordance with the appliance manufacturer's instructions. ICC will calculate correct vent sizing on request.
4. Make sure you read the appliance installation instructions for vent limitations such as maximum horizontal length, maximum number of elbows, total vent height, common venting option, and other limitations that may affect the design and installation of this vent.
5. **DO NOT** connect a natural draft appliance to a common venting system deserving Cat. II, III or IV appliances.
6. Check the joints and seams for gas tightness when using the venting system with a Category III or IV appliance.
7. The venting system **SHALL NOT** be routed into, through, or within any other vent, such as an existing masonry or factory-built chimney flue. Exception: A masonry chimney flue may be used to route Model VIC if no other appliance is vented into the same masonry chimney flue.
8. Model VIC double wall vent can be used with single wall vent within the same installation as long as proper clearances are maintained.
9. The maximum height of un-guyed vent above the roof is 5 feet.
10. The vent shall extend at least 3ft. above its point of penetration with the roof and at least 2 ft. higher than any wall, roof or adjacent building within 10 ft of it.
11. **DO NOT FILL THE AIR SPACE** around the vent with insulation or any other material.
12. **Do not allow sawdust or construction debris** to accumulate around the vent. Clean all areas surrounding the vent before closing up any enclosed areas.
13. Except for installation in single or double family dwellings, a venting system that extends through any zone above the zone which the connected appliance is located shall be provided with an enclosure having a fire resistance rating equal to or greater than that of the floor or roof assemblies through which it passes.
14. Enclosure of exterior mounted venting systems below the roof line is recommended to limit condensation.
15. When required, a drain fitting should be located as close as possible to the appliance flue outlet.
16. **A pitch of at least ¼" to the foot or 2° must be maintained on horizontal run to prevent the accumulation of corrosive condensate.**

## Planning your Installation

Prior to starting your installation, we suggest you take the following into consideration:

1. Check the appliance manufacturer's installation instructions to see all possible vent configurations.
2. Review all your options for the appliance location and also venting configuration. Try to minimize the alteration and reframing of structural components of the building (wall studs, water pipes, electrical wiring, ceiling joists, roof rafters, etc.). It may be easier to change the location of your appliance than to modify the building structure.
3. **Use only Model VIC listed components.** Do not use damaged parts.
4. The horizontal vent termination on the exterior must be located in accordance with Codes and Regulations.
5. Any penetrations of ceilings, floors, or walls must be properly fire-stopped.
6. Contact your local building authority and/or fire officials for permits, restrictions and installation inspections. You may also wish to contact your building insurance representative.

## Tool checklist

Tools and equipment you may need for your installation.

- Eye protection
- Gloves
- Tape Measure
- Extension cord
- Marking pencil
- Nails
- Stud sensor
- Square
- Circular saw
- Hand saw
- Drill
- Drill bits
- Keyhole saw
- Ladder
- Level
- Pliers
- Caulking gun
- Hi temp. Silicone sealant
- Hammer
- Screwdrivers
- Screws
- Plumb Bob
- Cold chisel

## Rules of Safety

1. Wear gloves when handling metal parts with sharp edges.
2. Wear safety glasses.
3. Electrical tools must be grounded.
4. If a ladder is required, it must be in good condition, installed on a firm surface, and leveled.
5. When cutting a wall, floor or ceiling, be careful not to damage wiring, gas or water pipes. If these elements need to be relocated, work should be done by a qualified person.

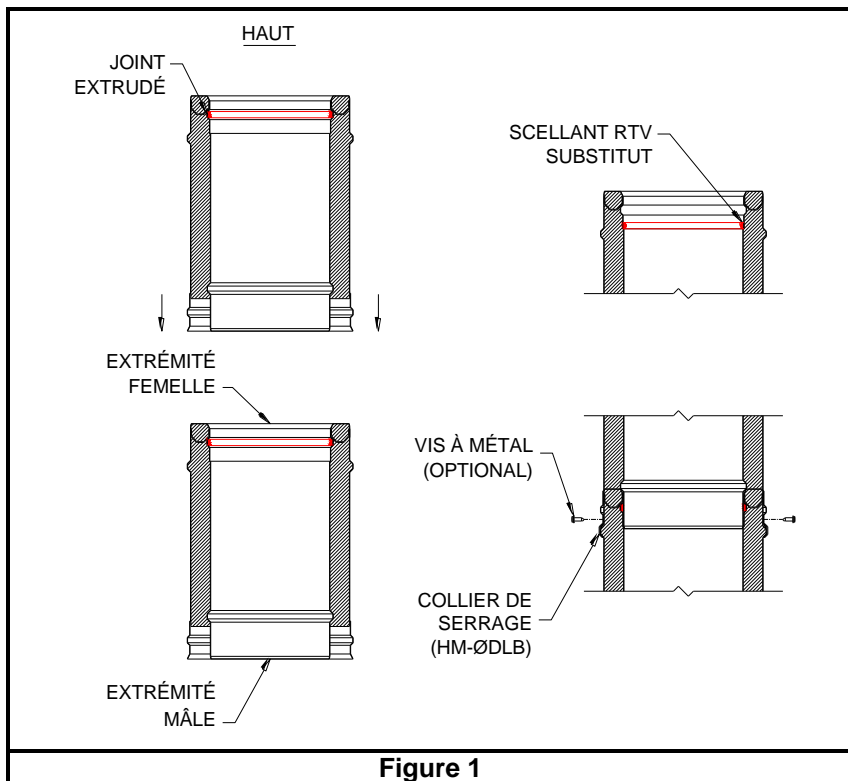
## Assembling Notes

### Use of sealant

The Model VIC vent has a factory installed high temperature gasket that will make a sealed connection. It is not required to apply sealant on any lengths or fittings. The only exception is the adjustable length. The adjustable length must be sealed with a factory supplied high temperature sealant (X-TRASIL #4706). Allow the sealant to cure for 24 hours before operating the appliance.

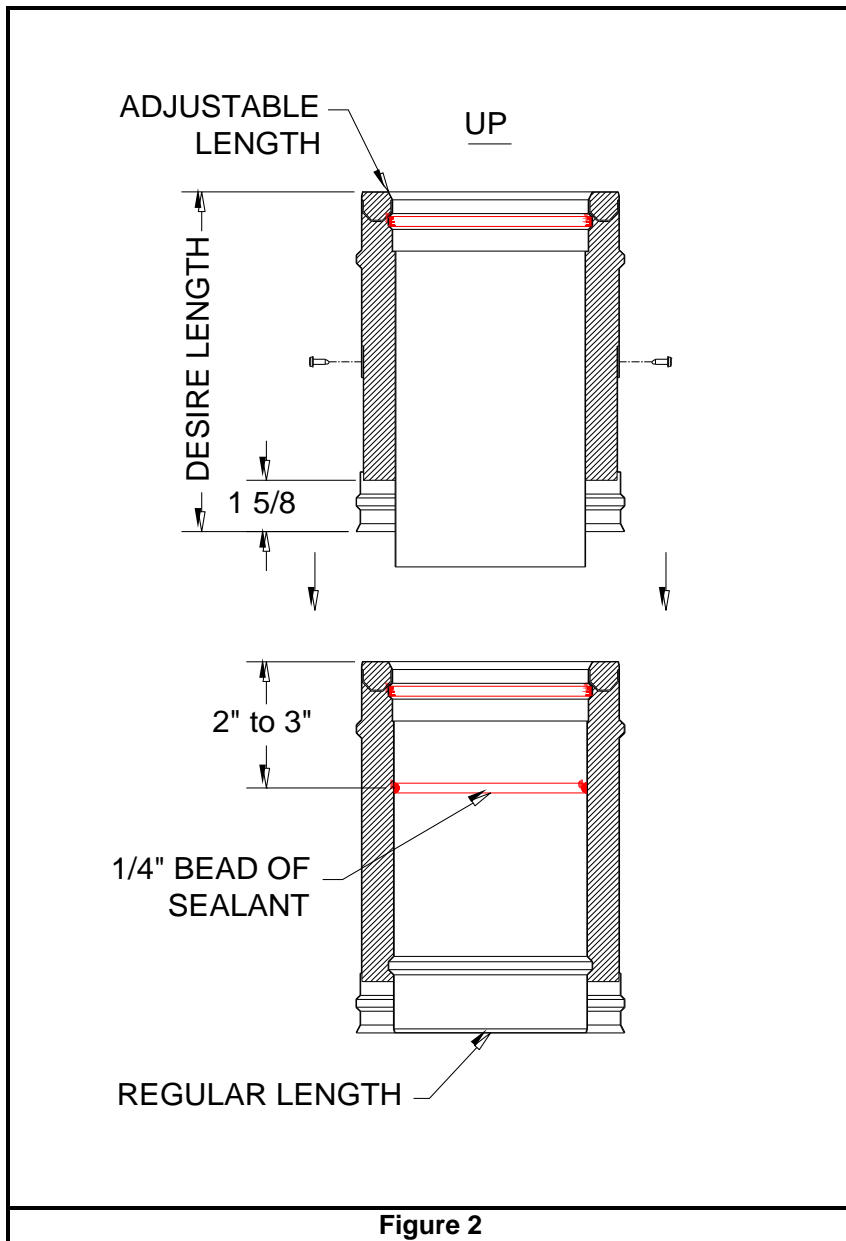
If the factory installed gasket is damaged in the field you can seal the joint with the high temperature sealant. Follow the same procedure as for the adjustable length.

### Joint connection



To connect two parts together simply insert the male end of one part into the female end of the adjoining part and press firmly until the outer casings are fully inserted one into another. Once the parts are firmly joined, install a locking band over the outer casing joint as shown in **Figure 1**. A locking band comes with every part. You can put a small amount of liquid dish soap on each gasket to make it easier to assemble the vent. Do not use a petroleum-based lubricant.

In addition to the locking band you can use #8-1/2 or bigger stainless steel sheet metal screws on the outer casing joint to make it stronger. Use a minimum of 3 screws (3"-10"), 4 screws (12"-14") or 6 screws (16"-24").



The adjustable length adjusts by sliding inside a regular length or fitting. The adjustment range is from 4 ½” to 9 ½” for the 12” adjustable length and 4 ½” to 22 ½” for the 24” adjustable length. The adjustable length is supplied fully extended. To adjust the adjustable length slide the bottom casing to the desire length then screw the two sections together with the self tapping screws provided. Cut the extra insulation on the bottom of the adjustable length 2 inches from the end. Make sure each joint is clean by removing oil and other contaminants; alcohol has been found suitable to clean the joints. To seal the adjustable length you will first need to apply a ¼” bead of sealant inside the regular length or fitting about 2 to 3 inches from the female end. Insert the adjustable length inside the female joint by twisting slightly, to ensure even distribution of the sealant. Press firmly until the outer casings are fully inserted one into another. Once the parts are firmly joined, install a locking band over the outer casing joint as shown in **Figure 2**. The adjustable length comes with its own locking band.

In addition to the locking band you can use #8-1/2 or bigger stainless steel sheet metal screws on the outer casing joint to make it stronger. Use a minimum of 3 screws (3”-10”), 4 screws (12”-14”) or 6 screws (16”-24”).

**Figure 2**

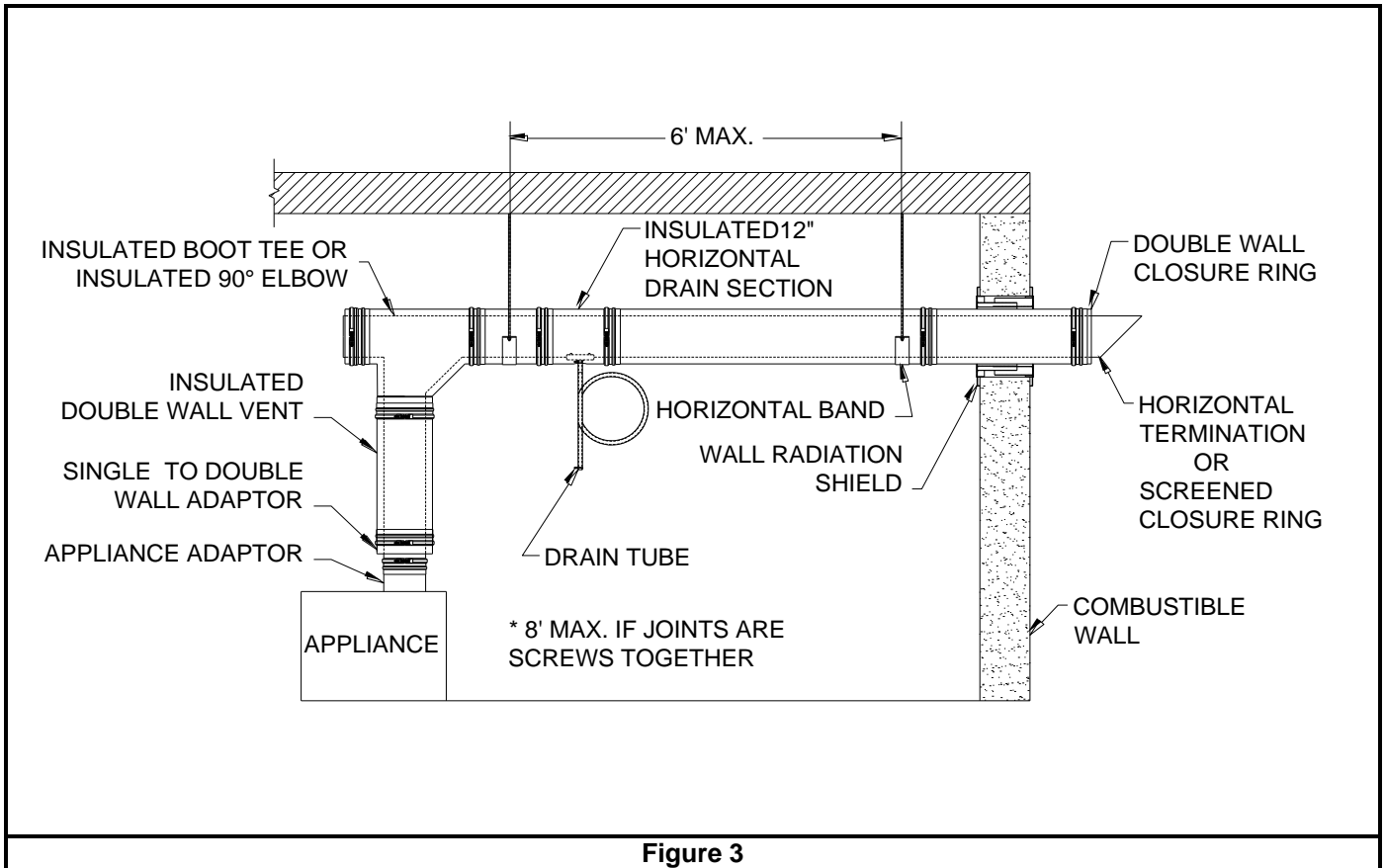
**RTV sealant (10 oz Cartridge & 3 oz Tube) Coverage**

	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"	18"	20"	22"	24"
# of joints (10 oz)	84	63	50	42	36	32	28	25	21	18	16	14	13	12	11
# of joints (3 oz)	26	19	15	13	11	10	9	8	6	6	5	4	4	3	3

- The coverage is about 66 feet per 10 oz cartridge and 20 feet per 3 oz tube for a ¼” bead.
- Actual coverage may vary.

Note: The Appliance Adapter will most likely also be sealed using the RTV sealant. See the appliance manufacturer instructions for detail.

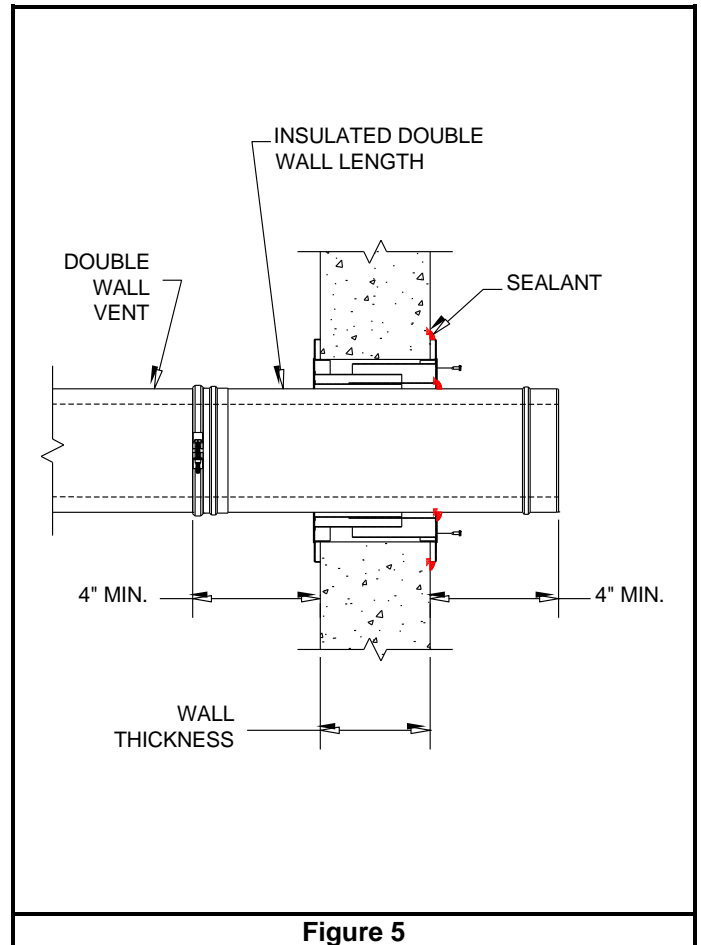
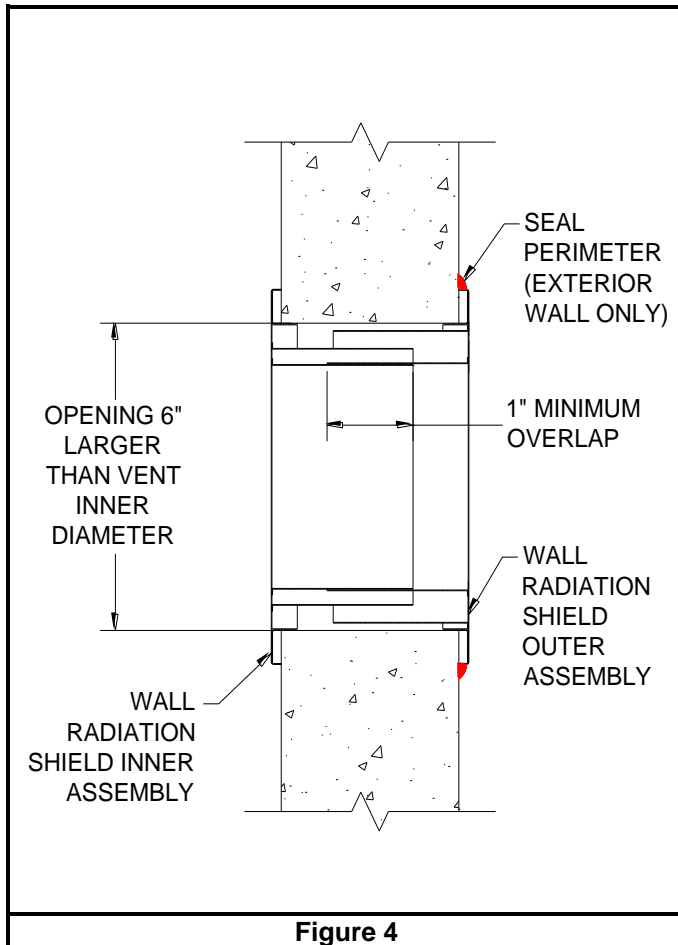
## Horizontal through the wall installation



### Requirements:

- The vent system must terminate with a Model VIC termination or with an approved mechanical vent device, or with the appliance manufacturer listed termination.
- The total continuous distance of the vent system from the appliance flue collar to the termination shall not exceed that specified in the appliance manufacturer's installation instructions. When venting natural draft appliances the termination must be at least 5 feet above the topmost draft hood. Otherwise a Listed mechanical draft inducing device is required.
- Termination Location:
  - (a) The vent shall terminate at least 3 feet above any forced air inlet located within 10 feet.
  - (b) The vent shall terminate at least 4 feet below, 4 feet horizontally from or 1 foot above AND 2 feet horizontally from any door, window or gravity air inlet into any building.
  - (c) The vent termination shall be at least 12 inches above grade or, in geographical areas where snow accumulates, at least 12 inches above the anticipated snow line.
  - (d) Through-the-wall vents for Category II and IV appliances and non-categorized condensing appliances shall not terminate over a public walkway or an area where condensate or vapors could create a nuisance or hazard or could be detrimental to the operation of regulators, relief valves or other equipment.
  - (e) The vent termination shall also be at least 8 feet horizontally from any combustion air intake, located above it.
- Proper means draining condensate should be provided. Proper sloping is required when the vent is installed horizontally.
- The drain fitting should be installed as close to the appliance flue collar as possible.
- Use non-combustible hanger straps or ICC horizontal bands every 6 feet to support the vent (8 feet if screws are used at every joint).  $\frac{1}{4}$ "  $\emptyset$  threaded rod is typically used with ICC Horizontal Band. **Do not puncture the vent inner pipe with screws or other fasteners.**
- The horizontal vent must slope upward toward the termination at least  $\frac{1}{4}$ " per foot and be installed so that all condensate runs back toward the appliance and is not retained in any part of the venting system. Exception: If the system is connected to a positive pressure (Category III or IV) appliance, terminates with a horizontal termination, and has no provision for draining condensation and/or rain water; then the vent must pitch downward toward the termination at a pitch at least  $\frac{1}{4}$ " per foot.

1. Determine the appliance and termination location that agrees with both the codes and appliance manufacturer's requirements.
2. Cut and frame a square opening in the wall making sure the center of the hole is aligned with the center of the horizontal vent. **The opening must be 6" larger than the vents inner diameter.**
3. Install both parts of the Wall Radiation Shield and screw (or nail) them to the frame (see **Figure 4**). Seal the Wall Radiation Shield perimeter to the exterior wall with caulking to prevent water infiltration.  
 Note: The Wall Radiation Shield will fit wall thickness from 5 3/4" to 10 1/2". For wall thickness smaller than 5 3/4", cut both sleeves as required. Once installed, an overlap of 1" minimum is necessary.



4. Install the vent starting at the appliance. Make sure to install a Horizontal Band every 6 feet (or 8 feet if screws are used at every joint) or after every change in direction of the vent.
5. Once installed, the vent must protrude at least 4" from the exterior wall surface.
6. Screw the two half plates into the pre punched holes on the Wall Radiation Shield exterior plate (see **Figure 5**). Those half plates are supplied with the Wall Radiation Shield.
7. Check the make sure a minimum slope of 1/4" per foot is maintained in the horizontal vent. Seal the outside length casing to the Wall Radiation Shield assembly using high temperature sealant to protect against water infiltration.
8. Install either the Horizontal Termination (miter cut) or the Screened Closure Ring.
9. Install the Double Wall Closure Ring to cover the end of the outside length and hold the termination in place.

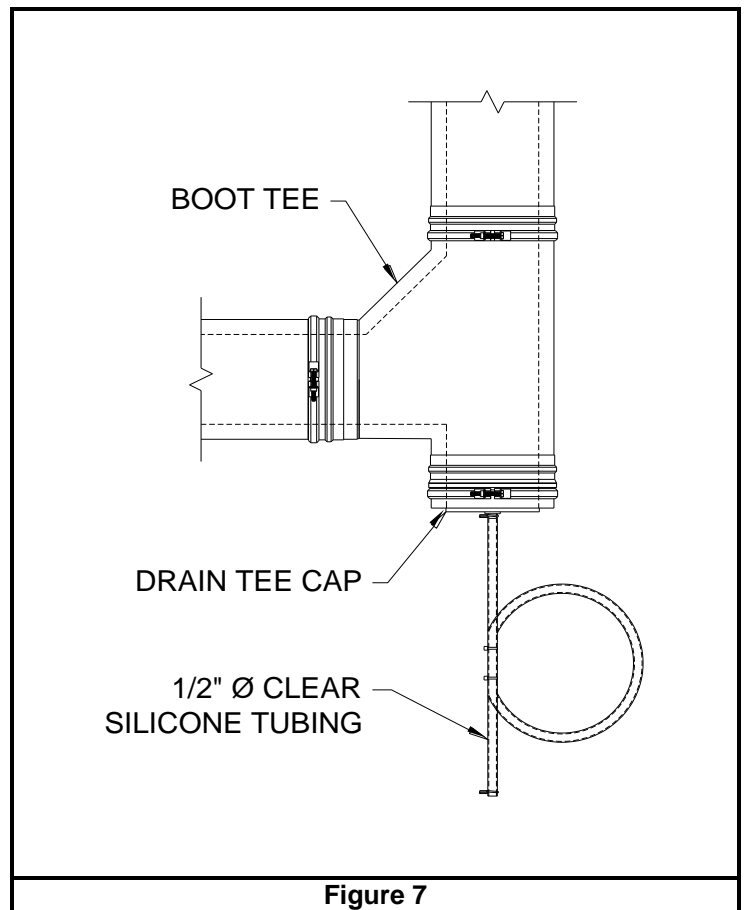
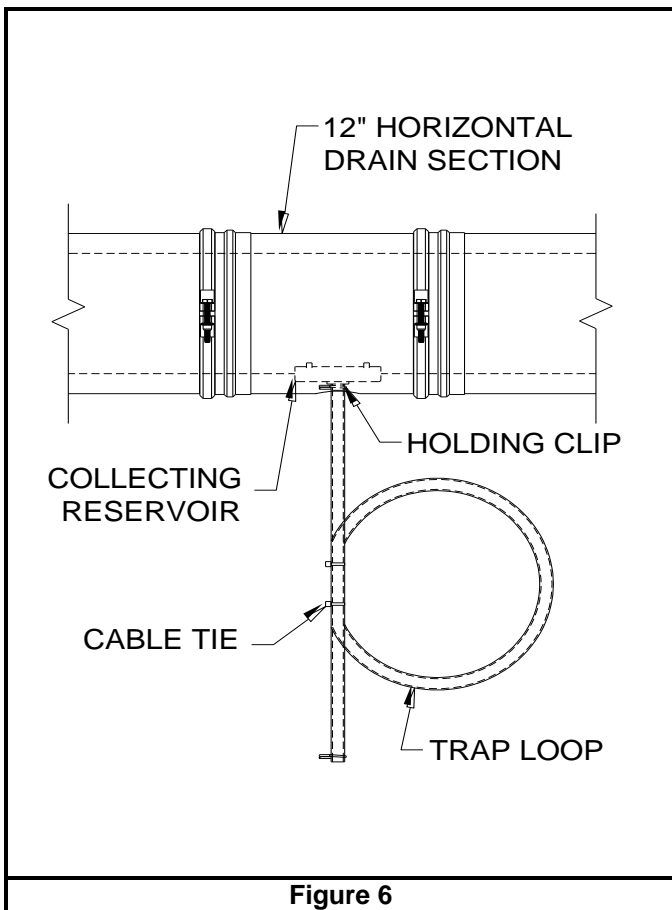
Note: If you are going through a non-combustible wall (concrete wall) you don't need to install the Wall Radiation Shield as long as proper clearances to combustibles are maintained around the double wall vent. A round opening 1" larger than the vent outside diameter is sufficient to allow the double wall vent to go through the non-combustible wall. Seal the gap around the vent with the Firestop and high temperature sealant.

## Condensate Drains

If an internal condensate drain is not part of the appliance, but one is required per the appliance manufacturer's instruction or local code, install a 12" Horizontal Drain Section in the horizontal vent, as close as possible to the appliance flue collar.

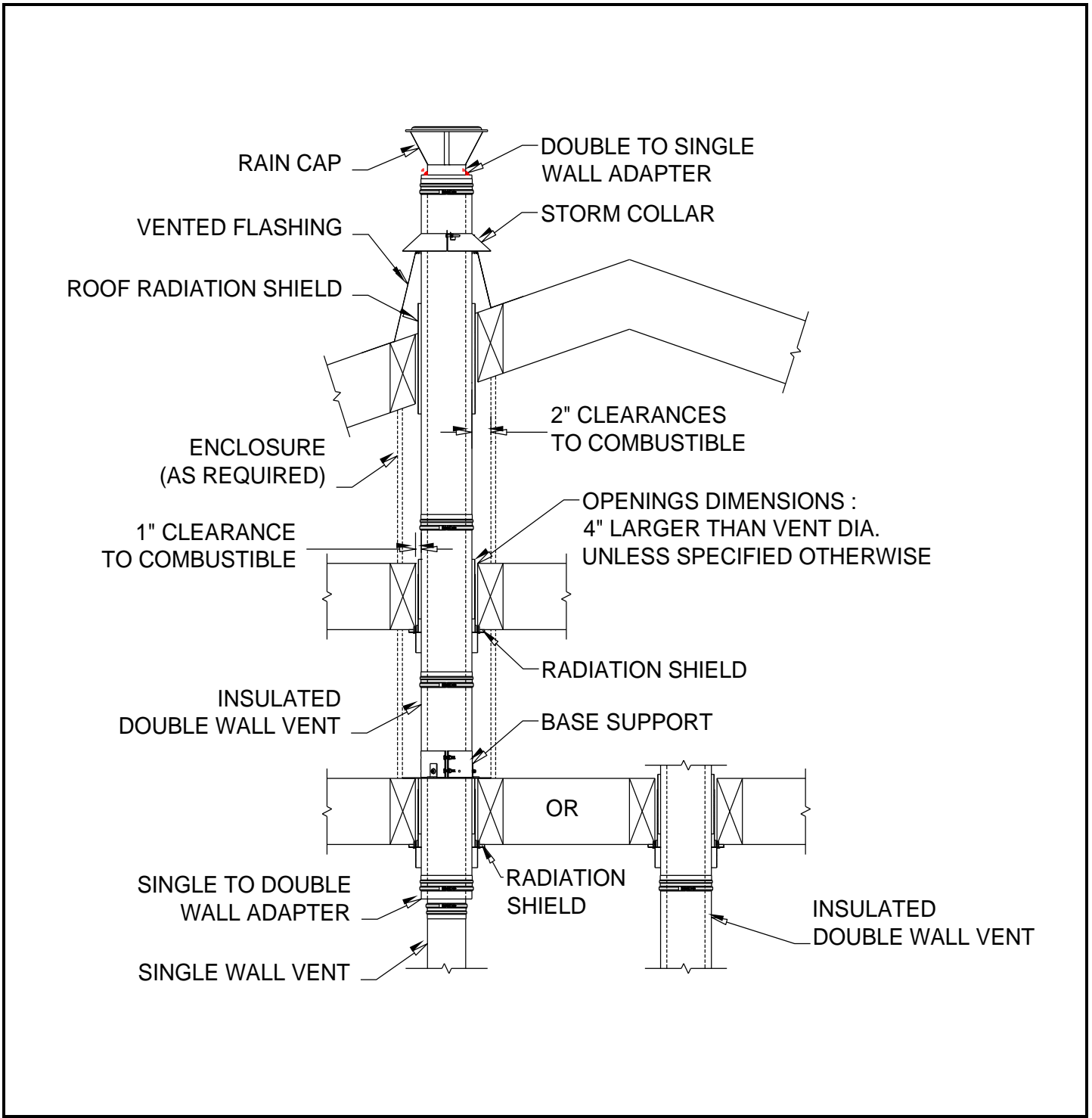
A condensate drain is also required at the bottom of a vertical stack.

When installed, the Horizontal Drain Section drain shall be located on the bottom side of the vent system. A 1/2" diameter Drain Tube is available to direct the condensate to a floor drain. A trap loop must be formed in the drain hose and must be a **diameter that is at least four times the appliance's rated stack pressure in inches of water column or a minimum of 3 inches**. Secure the loop with a cable tie. Prior to final assembly the trap loop must be 'primed' by pouring a small quantity of water into the drain hose. The same apply to the Boot Tee / Drain Tee Cap on vertical installation.





## Vertical interior installation

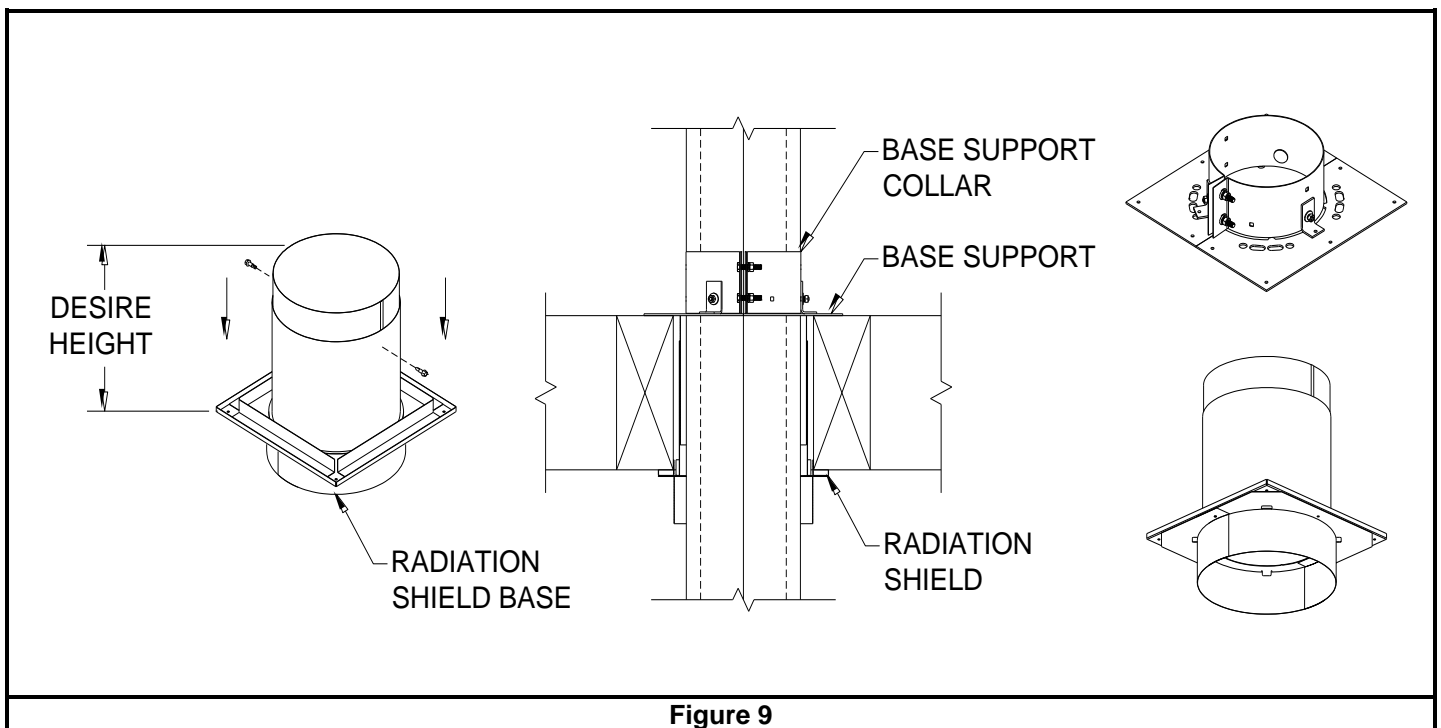


**Figure 8**

**Requirements:**

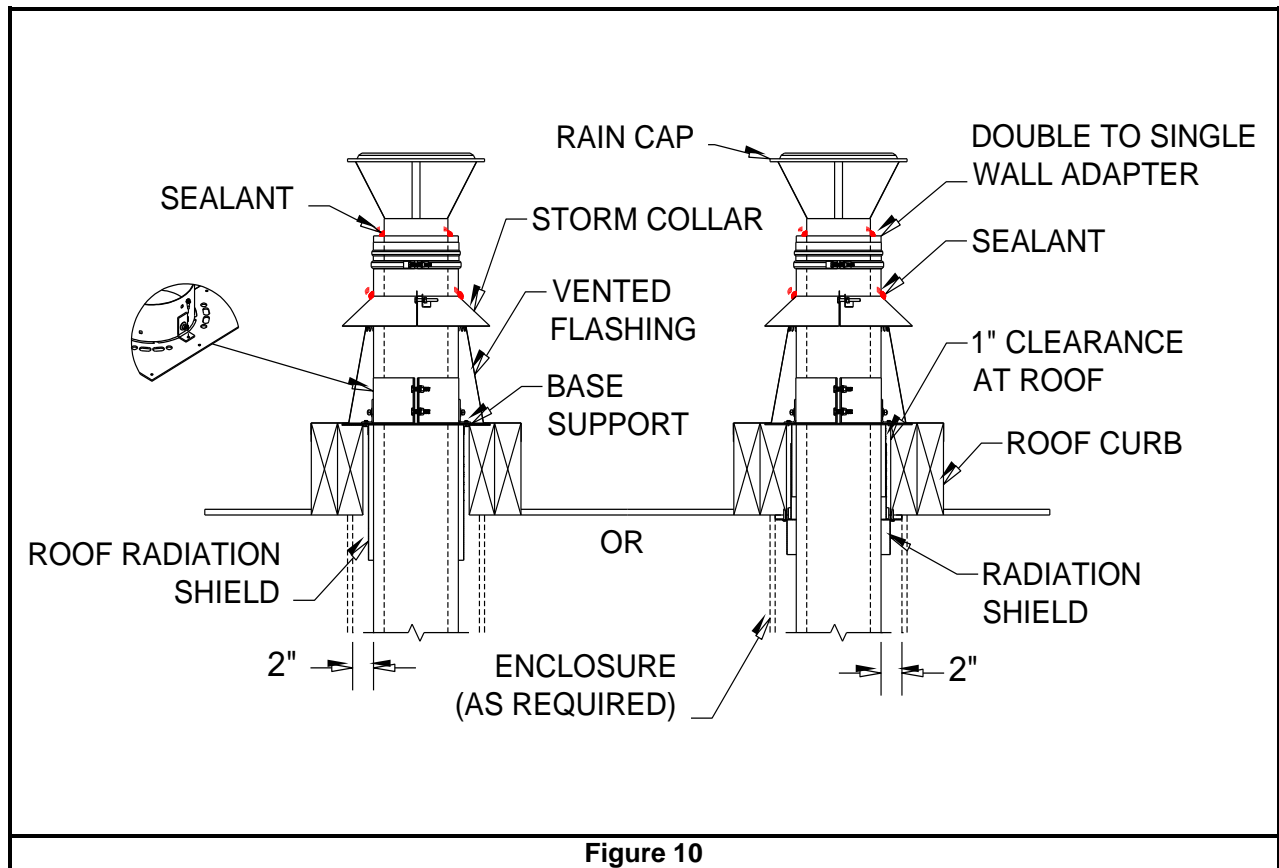
- Unless installed in a fire rated shaft (enclosure), fire-stopping is required when going through floors and ceilings.
- Vertical termination must terminate no less than 3' above the roof. A Rain Cap or other equivalent termination is required to keep rain or debris out of the vent. Either Model VIC Terminations or approved mechanical vent devices that are specified or provided by the appliance manufacturer are permitted.
- When terminated at a height more than 5' above the roof line, the vent must be stabilized using a Guy Band. For a height of more than 20' contact the factory.
- 3" diameter vent is only Listed for Category III and IV appliance.

1. Determine the location of the appliance, floor openings and termination that complies with both the codes and appliance manufacturer's requirements.
2. Cut and frame square openings in the floor, ceiling and roof where the vent will pass. **The openings must be 4" larger than the vent inner diameter.** If you are planning to install a Roof Radiation Shield, the roof opening must be 6" larger than the vent inner diameter (see **Figure 10**).
3. From below, install a Radiation Shield in each floor opening. If you are installing a Base Support on top of the floor you will need to adjust the height of the radiation shield to match the floor thickness. The radiation shield is supplied fully extended. To adjust the radiation shield slide the top tube to the desire height then screw the two sections together with the self tapping screws provided (see **Figure 9**).
4. Install the vent starting at the appliance.
5. After the vent passes through a floor opening screw the two half plates (supplied with the Radiation Shield) using the pre-punched holes to the Radiation Shield base (see **Figure 9**). This will seal the gap around the vent and the Radiation Shield.
6. If you need to support the vent vertically, a Base Support or a Wall Support can be used. The Base Support is installed on top of a floor. The Wall Support can be installed anywhere in the system. Depending on your system layout one support may be better than another. Remember that a support needs to be installed after a vertical deviation.



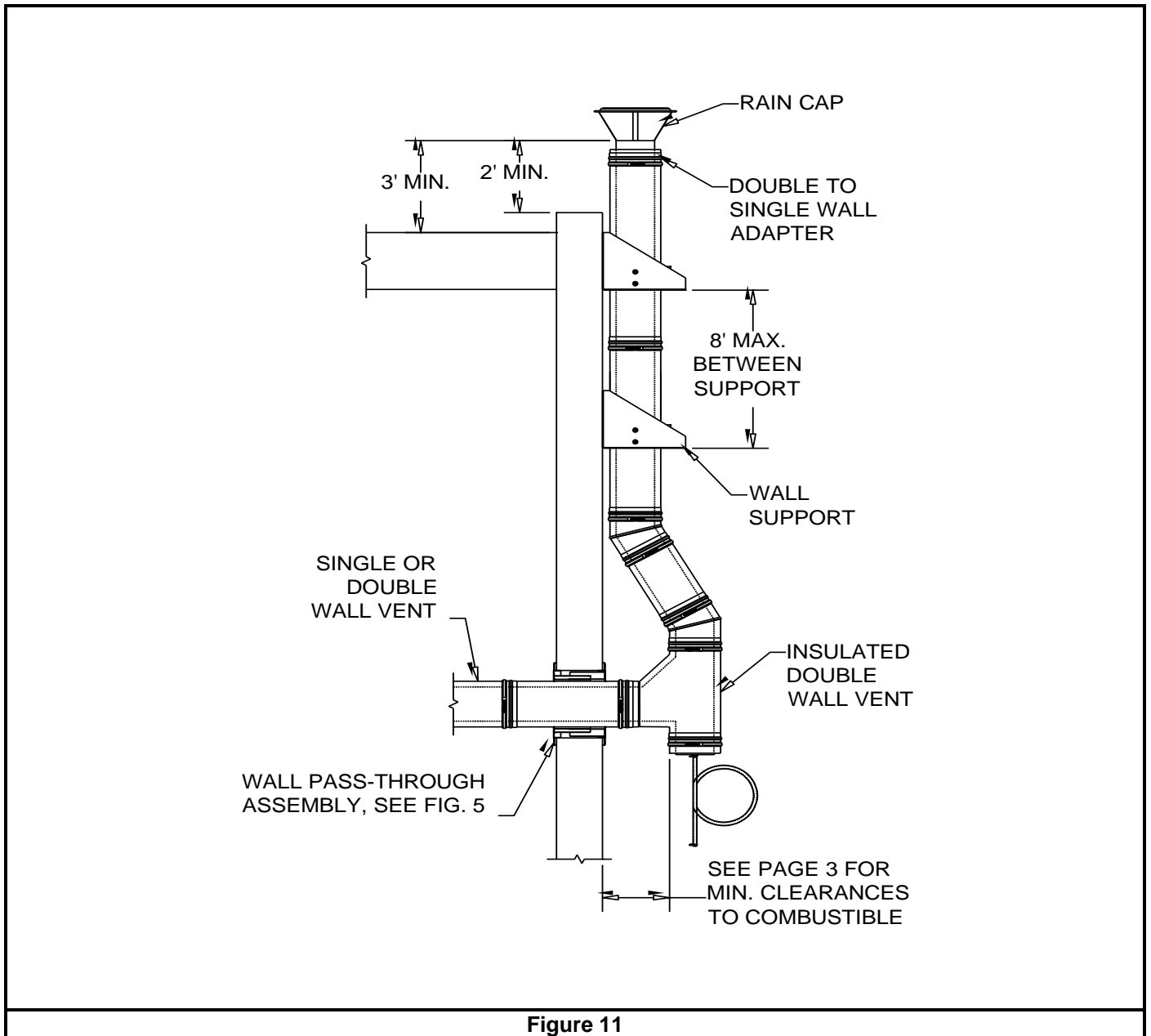
**Figure 9**

7. Continue adding vent lengths through the roof until the required vent height is reach. The maximum height of un-guyed vent above the roof is 5 feet. If you have more than 5 feet, install a Guy Band to provide stabilization.
8. A Base Support can be installed on top of a roof curb. Screw each support collar bracket to the support base using #10-1/2" or bigger sheet metal screws to provide extra stabilization.
9. Install the appropriate roof flashing for your roof pitch. A vented flashing is required for a combustible roof. Seal the flashing to the roof with roofing tar or silicone sealant. Place a storm collar over the vent and the flashing. Tighten it in place. Caulk the joint between the vent and storm collars with silicone sealant (see **Figure 10**).



- Put the rain cap over the vent and push the Closure Ring over the last length before installing the Locking Band. The Rain Cap comes with its own Closure Ring and Locking Band.

## Vertical exterior installation



- 3" diameter vent is only Listed for Category III and IV appliance.
1. Follow the instruction for a horizontal through wall installation, but instead of installing the horizontal termination you will need to install a Boot Tee and Drain Tee Cap.
  2. A Wall Support should be installed on the first vertical length after the Boot Tee and every 8' feet after that.
  3. Put the rain cap over the vent and push the Closure Ring over the last length before installing the Locking Band. The Rain Cap comes with its own Closure Ring and Locking Band.

## Base Support

The Base Support is the most common support. It can be used on any floor level or on top of a roof curb. The vent must first go through an opening before the support can be installed. Push the two half plates against the vent and screw them to the framing using five #8-1 1/2" screws or another appropriate fastener.

Put the support collar around the vent outer casing above the support base and flush with it. Tighten the collar. The collar can be screwed to the vent outer casing using #8-1/2" sheet metal screws.

If desired you can screw the support collar brackets to the support base using #10-1/2" or bigger sheet metal screws. This is mandatory when a Base Support is installed on top of a roof curb.

The Base Support maximum load is 10 ft of vent.

## Wall Support

This support is used on a wall when the vent needs to be supported vertically.

Tighten the support collar around the vent. Make sure to insert the four elevator bolts in the appropriate openings in the collar before placing it around the vent. The collar can be screwed to the vent outer casing using #8-1/2" sheet metal screws. Using a level, trace a horizontal mark on the wall where you want to install the wall support brackets.

Fasten both brackets to the wall using six #10-2 1/2" or larger screws.

The Wall Support can also be used to support horizontal run of venting from a ceiling.

The Wall Support maximum load is 10 feet of vent.

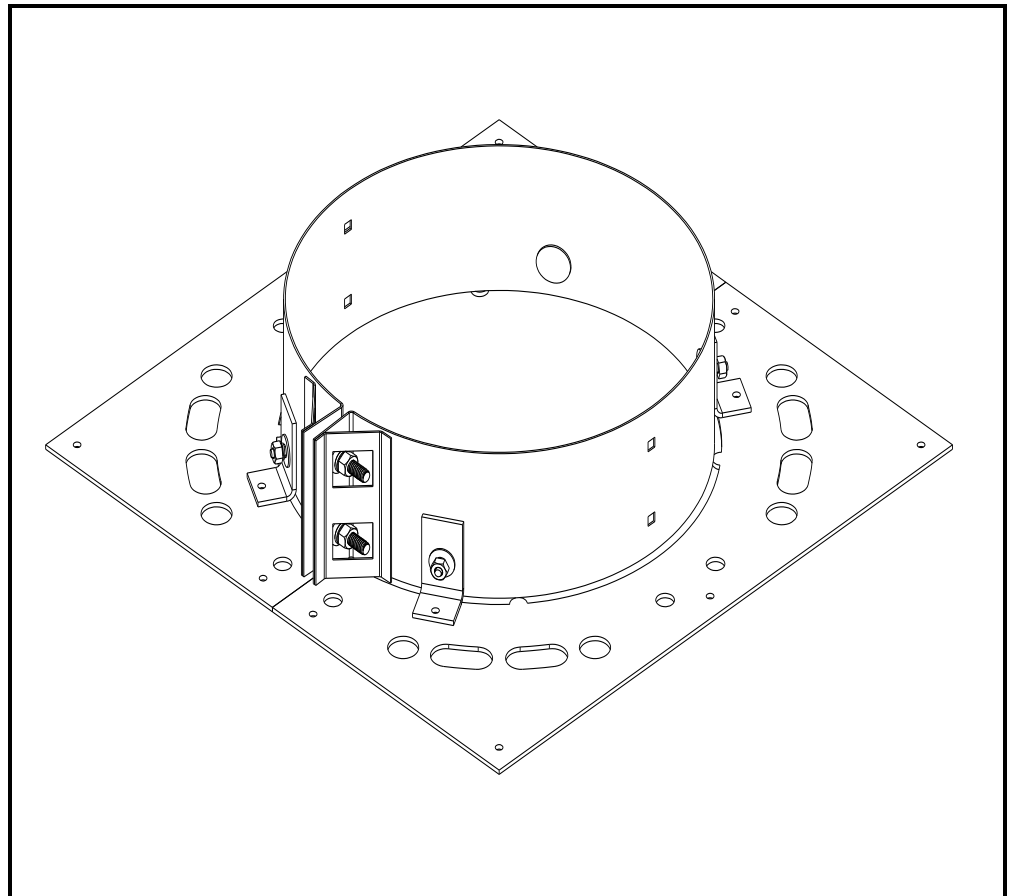


Figure 12

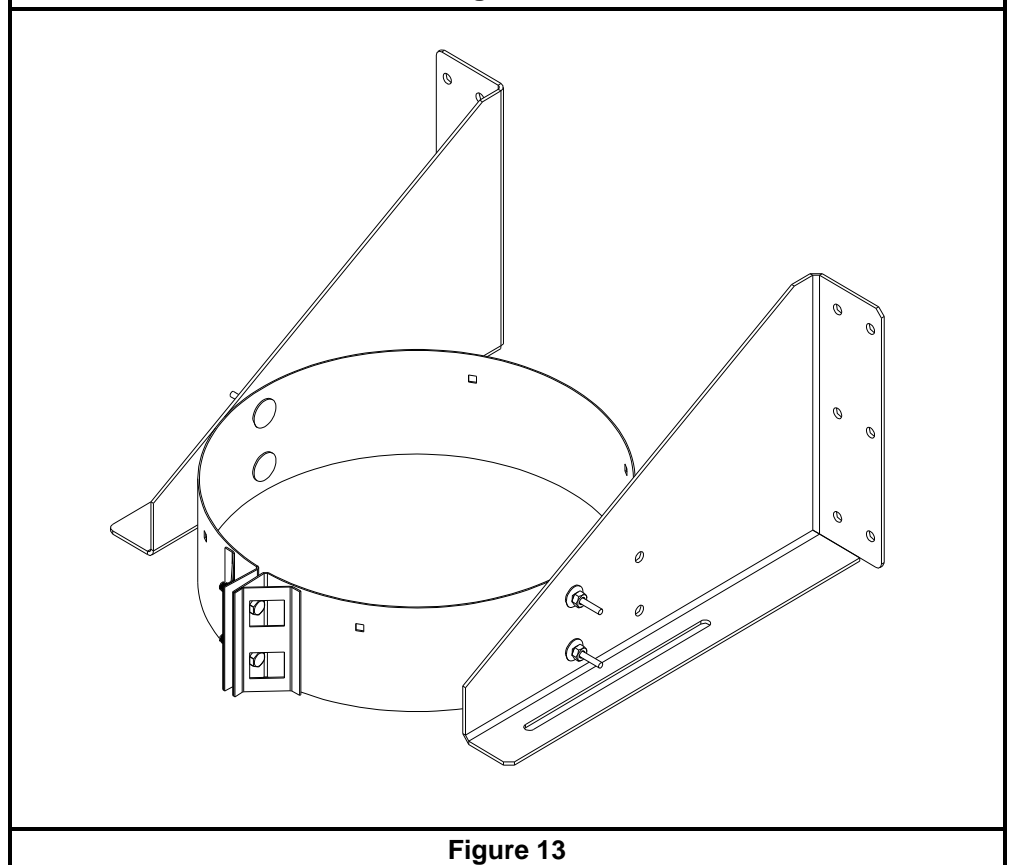


Figure 13

## Horizontal Band

The Horizontal Band is a half band made of 10ga. Galvanized steel designed to support the vent when it travels horizontally.

Typically, 1/4" diameter or larger threaded rod and fasteners are used to attach the band to the ceiling structure (not supplied).

Plumber strapping or any other hanging materials with a rating of 500 lbs. or more can also be used.

Typical configurations are shown in **Figure 14**. To prevent condensation from dripping on the floor never puncture or screw through the inner liner of the vent.

The maximum distance between Horizontal Bands is 6 feet (or 8 feet if the joint outer casings are screws together).

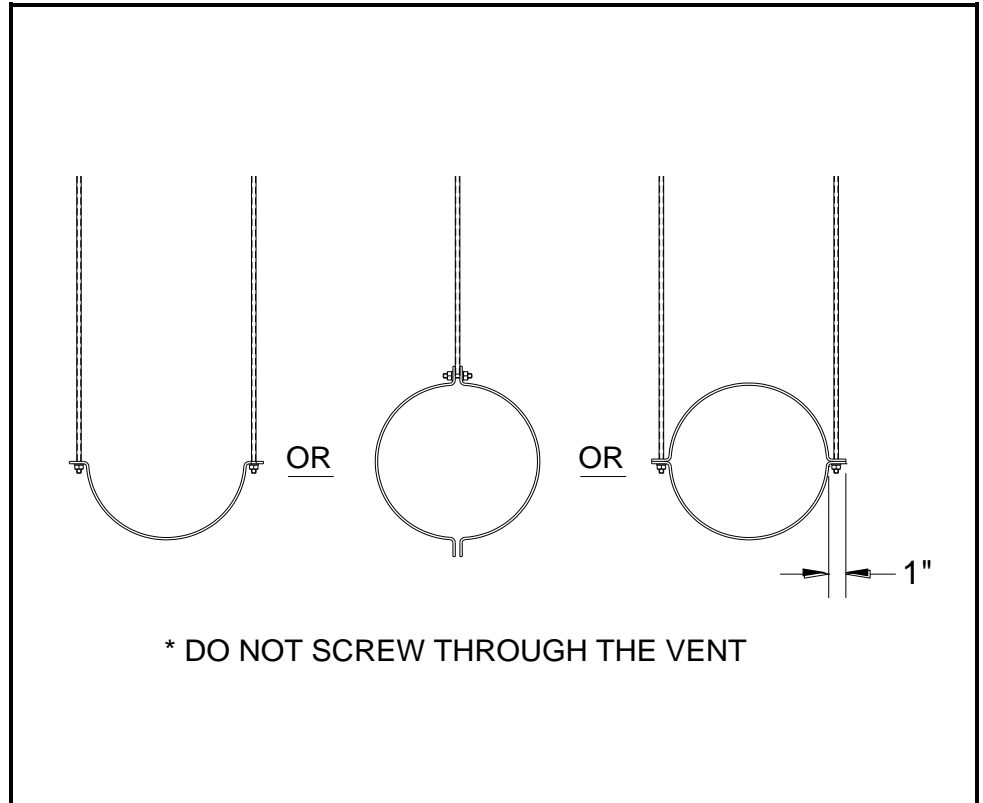


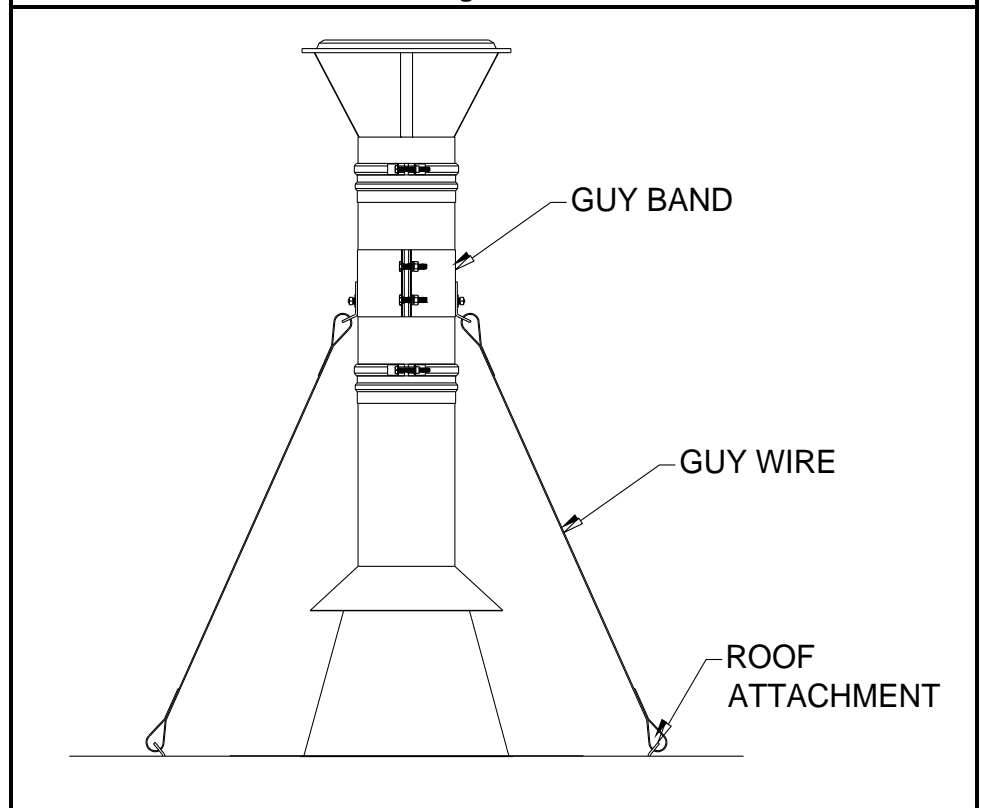
Figure 14

## Guy Band

The Guy Band may be used to secure a vent above the roof. The maximum length of un-guyed vent above the roof is five feet. The maximum length of guyed vent above the roof is twenty feet. The maximum length of vent between guy bands is ten feet. If height greater than twenty feet is required above the roof, an engineered support system should be installed.

1. Place the band collar around the vent length at the desired location. Tighten the collar.

2. Attach guy wires to the band and to the roof or ceiling using adequate attachments (not supplied). Tighten the guy wires until the vent is properly located and secure.



## Horizontal termination location

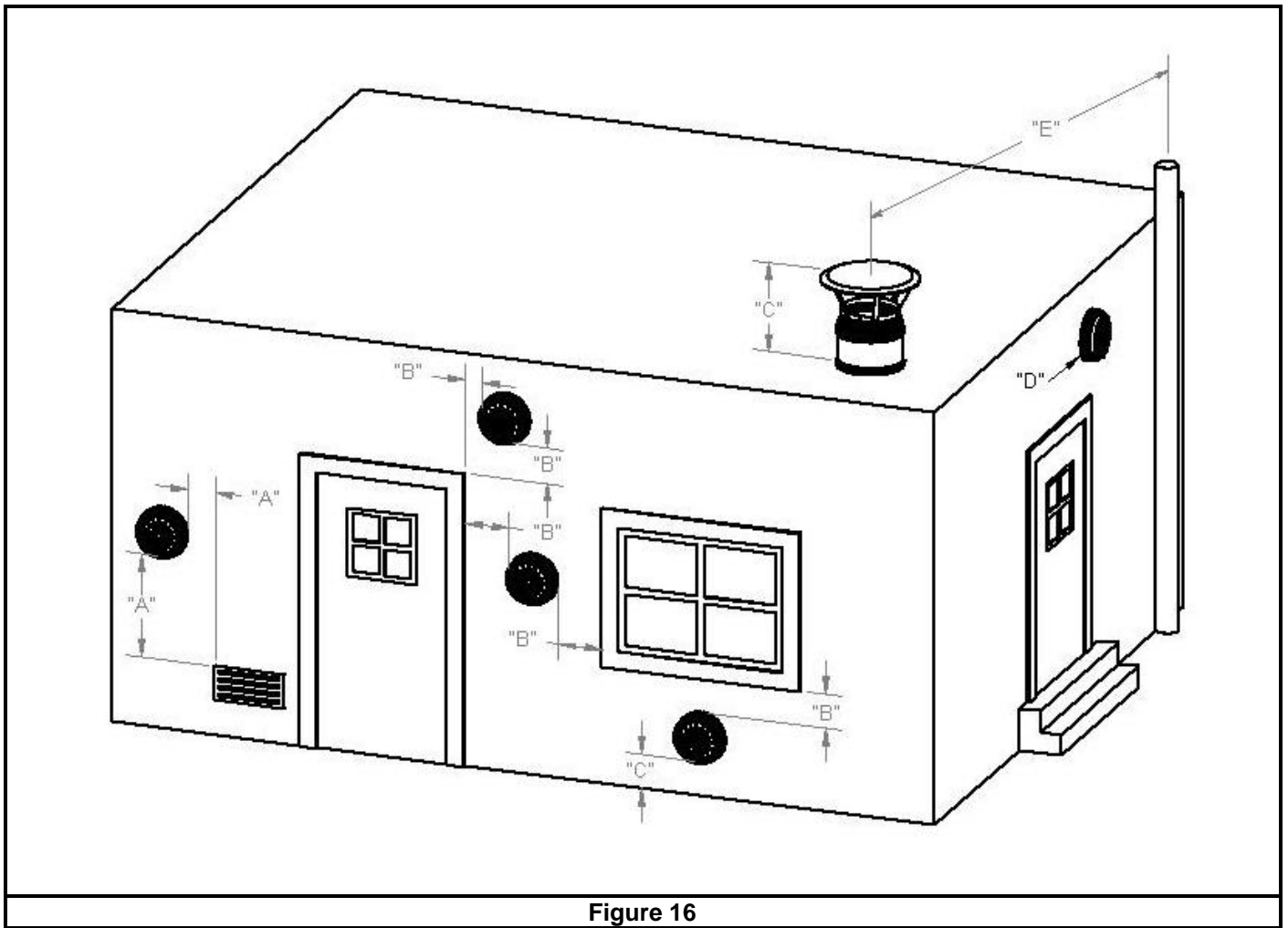


Figure 16

### Termination Location:

- (a) The vent shall terminate at least 3 feet above any forced air inlet located within 10 feet in any direction.
- (b) The vent shall terminate at least 4 feet below, 4 feet horizontally from or 1 foot above AND 3 feet horizontally from any door, window or gravity air inlet into any building.
- (c) The vent termination shall be at least 12 inches above grade or, in geographical areas where snow accumulates, at least 12 inches above the anticipated snow line.
- (d) Through-the-wall vents for Category II and IV appliances and non-categorized condensing appliances shall not terminate over a public walkway or an area where condensate or vapors could create a nuisance or hazard or could be detrimental to the operation of regulators, relief valves or other equipment.
- (e) The vent termination shall also be at least 8 feet horizontally from any combustion air intake, located above it.

## Model VIC Insulated Double Wall - Parts List

Component Name	AL29-4C	444	Note
<b>Lengths</b>			
48" Length	HC-ØIL4-FD	HC-ØIL4-ED	
36" Length	HC-ØIL3-FD	HC-ØIL3-ED	
24" Length	HC-ØIL2-FD	HC-ØIL2-ED	
12" Length	HC-ØIL1-FD	HC-ØIL1-ED	
6" Length	HC-ØIL6-FD	HC-ØIL6-ED	
24" Adjustable Length	HC-ØILA2-FD	HC-ØILA2-ED	
12" Adjustable Length	HC-ØILA1-FD	HC-ØILA1-ED	
12" Horizontal Drain Section	HC-ØILHD-FD	HC-ØILHD-ED	
12" Inline Test Port Section	HC-ØIIPS-FD	HC-ØIIPS-ED	
Ø <sub>1</sub> TO Ø <sub>2</sub> Increaser	HC-Ø <sub>1</sub>   Ø <sub>2</sub> -FD	HC-Ø <sub>1</sub>   Ø <sub>2</sub> -ED	
<b>Elbows &amp; Tees</b>			
15° Elbow	HE-ØIE15-FD	HE-ØIE15-ED	
30° Elbow	HE-ØIE30-FD	HE-ØIE30-ED	
45° Elbow	HE-ØIE45-FD	HE-ØIE45-ED	
90° Elbow	HE-ØIE90-FD	HE-ØIE90-ED	
90° Boot Tee	HE-ØIT-FD	HE-ØIT-ED	
Regular Tee Cap	HE-ØITC-FD	HE-ØITC-ED	
Drain Tee Cap	HE-ØITD-FD	HE-ØITD-ED	
<b>Supports &amp; Firestops</b>			
Base Support		HM-ØDBS	
Wall Support		HM-ØDWS	
Horizontal Band		HM-ØDHB	
Firestop		HM-ØIFS	
Radiation Shield		HM-ØIRS	
Wall Radiation Shield		HM-ØDWRS	
<b>Terminations</b>			
Rain Cap		HM-ØDRC	
Horizontal Termination (Miter Cut)		HM-ØDMC	
Screened Closure Ring		HM-ØDSCR	
<b>Flashing and collar</b>			
Flat Flashing		HM-ØDF	
Flashing 1/12 – 7/12		HM-ØDFA	
Flashing 8/12 – 12/12		HM-ØDFB	
Vented Flat Flashing		HM-ØDVF	
Vented Flashing 1/12 – 7/12		HM-ØDVFA	
Vented Flashing 8/12 – 12/12		HM-ØDVFB	
Storm Collar		HM-ØDSC	
<b>Accessories</b>			
Locking Band		HM-ØDLB	
Guy Band		HM-ØDGB	
Single to Double Wall Adapter		HM-ØSDA	
Double Wall Closure Ring		HM-ØDCR	
Appliance Adapter		HM-ØAA	
Drain Tubing (including clips)		HM-ØCT	



## **WARRANTY**

### **LIMITED 10 YEAR WARRANTY**

ICC warrants its Model VIC vent to be free of defects in materials and workmanship for a period of ten years from the date of purchase from ICC. This ten year warranty will only apply to systems which meet the following criteria:

The complete system must have been designed and sized by ICC engineers and all pertinent design and operating parameters of the system must have been accurately represented to ICC.

The entire vent system, including breeching as required, must have been supplied by ICC. Systems partially supplied by ICC do not qualify under this warranty.

The system must be installed in accordance with the installation instructions provided.

Proper precautions have been taken to insure that the combustion air is free of solvent or refrigerant vapors as well as any compounds which may cause acid condensates to form.

All exposed galvalume, galvanized, or steel surfaces must be protected at all times by a minimum of one base coat of primer and one finish coat of heat resistant and corrosion resistant paint. Stainless steel surfaces need not be primed or painted.

### **WARRANTY STIPULATIONS**

Remedies under the one year and ten year warranties are strictly limited to repairing or replacing, at ICC's option, any components which are determined by ICC to be defective. The warranties do not cover any labor costs or freight charges. Any parts returned to ICC under terms of the warranties must be returned freight prepaid.

ICC shall not be liable for incidental or consequential damages of any kind or for any damages resulting in whole or in part from misuse, improper installation, or inadequate maintenance of the system. In no event shall ICC be liable for any costs of installation, removal or replacement. No agent is authorized to make any modifications to this warranty or offer any additional warranties of any kind on behalf of ICC.

In all cases the system must be examined by a factory authorized representative in order to determine liability under this warranty.