



Advanced Engineering for

High Efficiency Gas Boilers and Heaters



Z-VENT® Commercial

A revolutionary self sealing Special Gas Vent System that dramatically reduces the total installed vent system cost.

Double Fail Safe[™] Connections

Z-VENT® Commercial components are supplied with self sealing gasket connections that install in half the time of field sealed systems.

The special design of the gaskets, along with precision engineered close tolerance construction components, ensure an air and

water-tight fit. This air and water-tight connection ensures optimum vent performance and reliability. With fusion welded pipe seams no sealant is necessary, cure time or call backs. Single Wall metallic special gas vent is cut to length on site. Singlewall and Doublewall is manufactured in diameters from 3" to 24".

UL Tested and Listed

Z-VENT® Commercial Model SVE IV Special Gas Vent System listed by Underwriters Laboratories to UL 1738 ULC S636, File MH 18505 Venting Systems for Gas-Burning Appliances, Category II,III and IV. Conforming to the Underwriters Laboratories pressure specifications with the water tight connections, ensure reliability and optimum vent performance. Leakage tested to 2½ times the UL pressure rating of 8" W.C.

Single Wall AL 29-4C® Stainless Steel 3" Through 24" Diameters

Double Wall AL 29-4C® Stainless Steel 3" Through 24" Diameters

- Complete Systems from starter to termination
- Cut-to-Length **OR** Adjustable Lengths available
- Up to 10' lengths available in 3" & 4" diameters

Gasket Joint Connections - All Diameters

- Double Fail-Safe™ self sealing gaskets
- Factory installed Air-tight & Water-tight seals
- NO sealant required saves installation time and money
- 2" overlapping secure joint 3" through 12" diameters
- 3" overlapping secure joint 14" through 24" diameters

Gear Clamp Closure System

- Field tested and time proven for more than 10 years
- Easy to install using standard tools
- On exterior of female joint
- Easy to replace if damaged during installation
- NO screws NO tabs to bend
- NO joint bands or coupling to install

Fusion Welded Pipe Seams

- High tech welding no filler material used
- Air and Water tight seams

Equipment Starter Adapters Available

- For most popular Category II, III, & IV Gas Fired Appliances
- Boilers Water Heaters
- Unit Heaters Tankless WH's

- 1" airspace insulated Double Wall Vent System
- AL 29-4C[®] Stainless Steel (SS) inner gas vent conduit
- 304 (or 316L) Stainless Steel (SS) outer jackets
- Complete Systems from starter to termination
- 4' lengths available 3"-8" diameters
- Elbows, Tee's, Supports, Flashings, etc
- Adjustable lengths All diameters

Gasket Joint Connection - All Diameters

- Double Fail-Safe[™] Self Sealing Gaskets
- Air-tight and Water-tight joint seal
- Factory installed
- NO sealant required saves installation time
- Insures proper seal every time

Snap-Secure Joining System

- Fast Simple –Secure
- NO tools required
- 2" overlapping secure-joint 3" through
- 12" diameters
- 3" overlapping secure-joint 14" through
- 24" diameters

Fusion Welded Pipe Seams

- High tech welding no filler material used
- Insure system anti-corrosive properties
- Air & Water tight seams



Application

Z-VENT® is a factory built, engineered

AL29-4C® Special Gas Vent System suitable for venting positive or negative pressure, residential and commercial gas fired heating equipment. The maximum allowable continuous flue gas temperature for Model SVE IV is 550° F(288°C).

Construction

The inner flue is manufactured from superferritic AL 29-4C® stainless steel. AL 29-4C® alloy shows excellent resistance to chloride ion pitting, crevice corrosion and stress corrosion cracking, making it the ideal choice for battling the effects of high temperature flue gases and corrosive condensate from high efficiency gas heating equipment.

A unique built-in **Double Fail Safe™ Gasket System** provides air and water tight connections, with no sealant required.

Z-VENT® is Leakage tested to 2½ times the UL listed pressure rating of 8 inches water column which significantly exceeds industry pressure standards and offers superior system service life.

Patented Positive Lock System Double Fail Safe™ Factory Gasket T304 or 316L Outer Pipe 1" Insulation Air Space AL29-4C* Inner Pipe

Z-VENT®

Z-VENT® Double Wall System

Incorporates a one inch air space between the vent walls, providing an insulation factor. The insulated double wall construction reduces clearance to combustibles and helps to maintain stack temperature; an important feature in the safe venting of modern high efficiency heating equipment. The outer wall is fabricated from Type 304 Stainless Steel, providing long lasting performance and superior structural integrity. Where the vent is installed in potentially corrosive environments such as rooms with chemicals present, the option of 316L Stainless Steel is available, providing increased corrosion resistance.

Fusion welded components provide superior fit, reduced turbulence and flow resistance. Also eliminated are crevices and other spots where condensation can collect and corrode the vent.

Pipe and fittings ends are precision formed and calibrated using specially designed high tolerance tooling. All seams are continuously welded using proprietary Z-Weld technology providing indefinite service life and a virtual air and water tight construction.

Patented Sealing System

Z-VENT® components are supplied with factory installed, patented (US Patent 6-523-865), self-sealing gaskets. The special gasket design with precision engineered close tolerance construction ensure an air and water tight fit leakage tested to 2½ times the UL pressure rating of 8 inches W.C.

Model SVE IV Single Wall

Available in diameter sizes ranging from 3" to 24". Engineered for use with Category II, III and IV gas-burning appliances only, where the maximum vent gas temperature at the appliance outlet does not exceed 550°F (288°C).

Z-VENT® can be installed in practically any configuration through the use of a wide range of pipe, fittings, terminations and appliance specific adaptors.

See **Z-VENT®** installation instructions and appliance manufacturer's instructions for recommended clearances at other vent temperatures.

Model SVE IV Double Wall

Available in diameter sizes ranging from 3" to 24.

Engineered for use with Category II, III and IV gas-burning appliances only, where the maximum vent gas temperature at the appliance outlet does not exceed 550°F (288°C)

Z-VENT® Double Wall's one inch air space between the inner and outer wall provides an insulation factor and is therefore recommended for installations where minimal surface temperatures are needed and stack temperatures need to be maintained.

Z-VENT® Double Wall is also recommended for exterior runs and installations where greater structural durability is needed.

Z-VENT® can be installed in practically any configuration through the use of a wide range of pipe lengths, fittings, terminations and appliance specific adaptors.

Please see **Z-VENT®** installation instructions and appliance manufacturer's instructions at www.z-flex.com for recommended clearances at other vent temperatures.

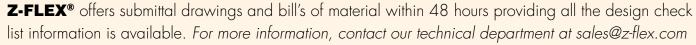


OEM Design Services

Z-FLEX® has been a market leader for over 30 years in the design of special venting systems and related products. Our strength lies in our extensive knowledge of specialized manufacturing techniques and product development with OEM manufacturers.

Technical and CAD Services

Z-FLEX® provides full technical support for all its products through literature, training and our in-house technical staff.





Venting shall be **Z-VENT®** Model SVE IV as manufactured by **Z-FLEX®** (Tel: 1-800-654-5600). The vent system shall consist of factory welded pipe and fittings incorporating a factory fitted sealing gasket which, when installed in accordance with the manufacturer's installation instructions, will seal the pipe joints without the use of field applied sealant.

The vent system shall be leakage tested to 8" W.C. positive pressure. The vent system will be tested and listed by Underwriters Laboratories to UL1738/ULC S636 with a maximum allowable continuous flue gas temperature of 550°F (288°C).

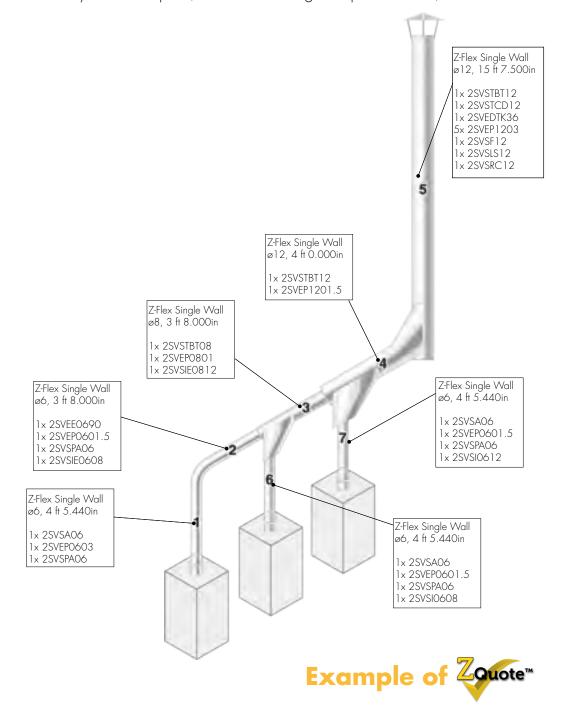
Clearance to Combustibles

System	System Operating Temperature	Clearance Enclosed Vertical	Clearance Unenclosed	
			HORIZONTAL	VERTICAL
Single	550°F (288°C)	6" (150 mm)	Pipe 3" (75 mm)	3" (75 mm)
Wall	Up to 480°F (249°C)	4" (100 mm)	1" (25 mm)	1" (25 mm)
Double	550°F (288°C)	6" (150 mm)	Pipe 2" (50 mm)	2" (50 mm)
Wall	Up to 480°F (249°C)	4" (100 mm)	1" (25 mm)	1" (25 mm)



Z-Quote[™] is a revolutionary software solution that creates a detailed, dimensional, **Z-VENT**[®] system layout, accurate bill of material and quote proposal in minutes.

Simply submit a completed design check list and our technical staff will provide you with a quote, detailed drawing with part call outs, and material list.





Design Checklist

A Z-Quote drawing will be provided complete with the design checklist. In order to receive an accurate and timely response, please complete the checklist with as much detail as possible. The information is critical and allows the engineering department to produce an accurate design layout. Please note that missing information will cause delays. Please do not submit mechanical

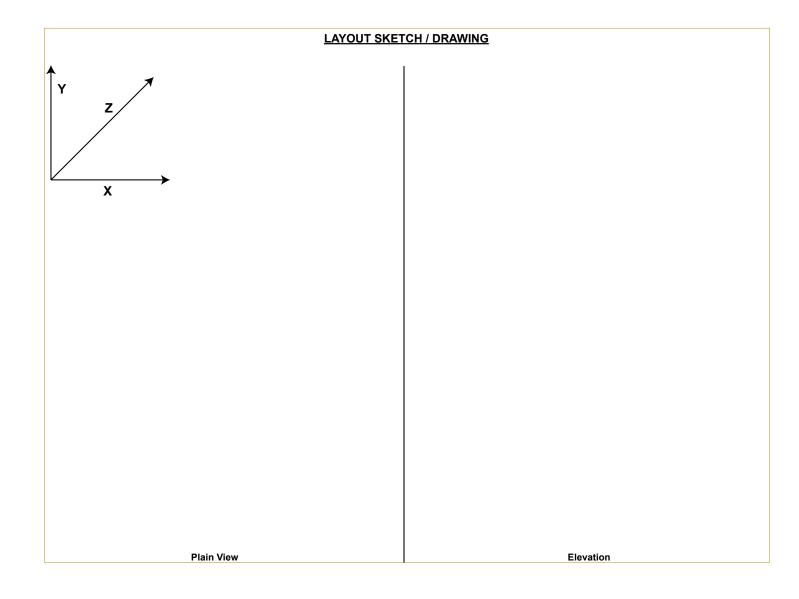
Please filter out and submit only the relevant data that applies.

Detail Information				
Company Name:		Job Name:		
Contact:		Location:		
Telephone:		Date Required:	(DD/MM/YY)	
Fax:		Email Address:		

Appliance data Make/Model:_ **Number of Units:** Please check appropriate boxes (Please list separately if models are of different sizes) Appliance Category: **Vent Outlet Ø:** YN Appliance Pad: Inches (OD)" thick: Individual **Common Vent:** Indicate External power Venter used? **Common Vent** Vents: Diameter " **Barometric** Dampers to be used? **Select Venting** Z-Vent(AL294C) **Building** Ceiling Combustible Y N Ceiling Thickness" Material: Structure: Double Wall Wall Combustible Y N Wall Thickness" Single Wall ZS(316L) Rigid Stainless Chimney Liner **Vertical** Horizontal **Roof Top** Tall Cone/Adjustable Mechanical Supports Firestop Support **Vent Support** at ceiling Flashing (circle one) Guy Band (cable Supplied by Firestop Support by others) Contractor every 4-6ft or less at Vent/Base Guy Band every elbow Support

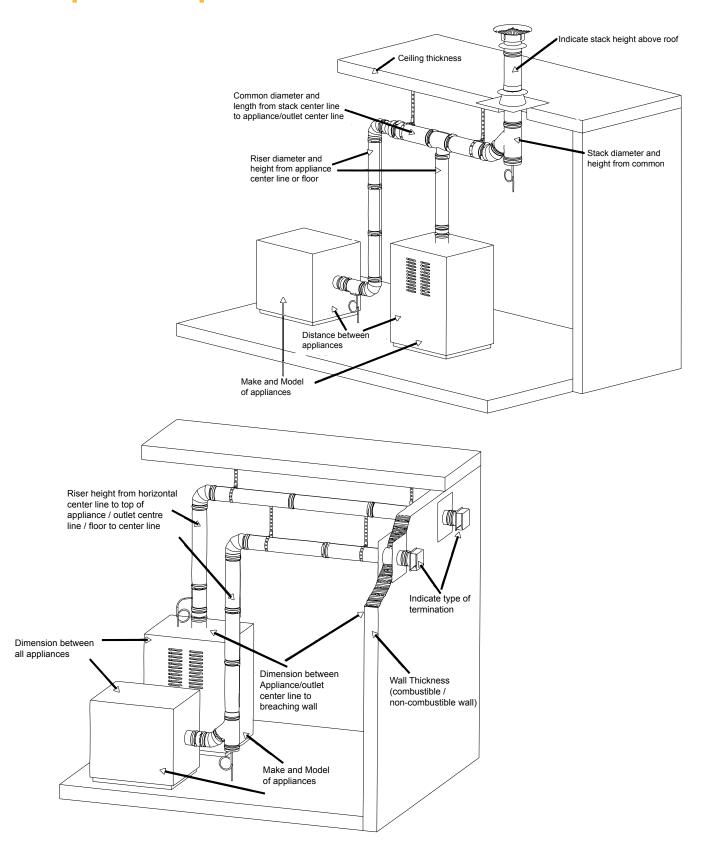
Center line Dimensional Data (Please do not submit mechanical drawings)				
1. Between each appliance exhaust outlet	6. From floor to ceiling			
2. Between each appliance side by side	7. From breaching to top of stack			
3. From appliance(s) to breaching wall	8. From appliance to breaching wall			
4. From the floor to the appliance exhaust outlet	9. From appliance outlet to vertical stack (for stacks terminating through roof)			
5. From floor to breaching				

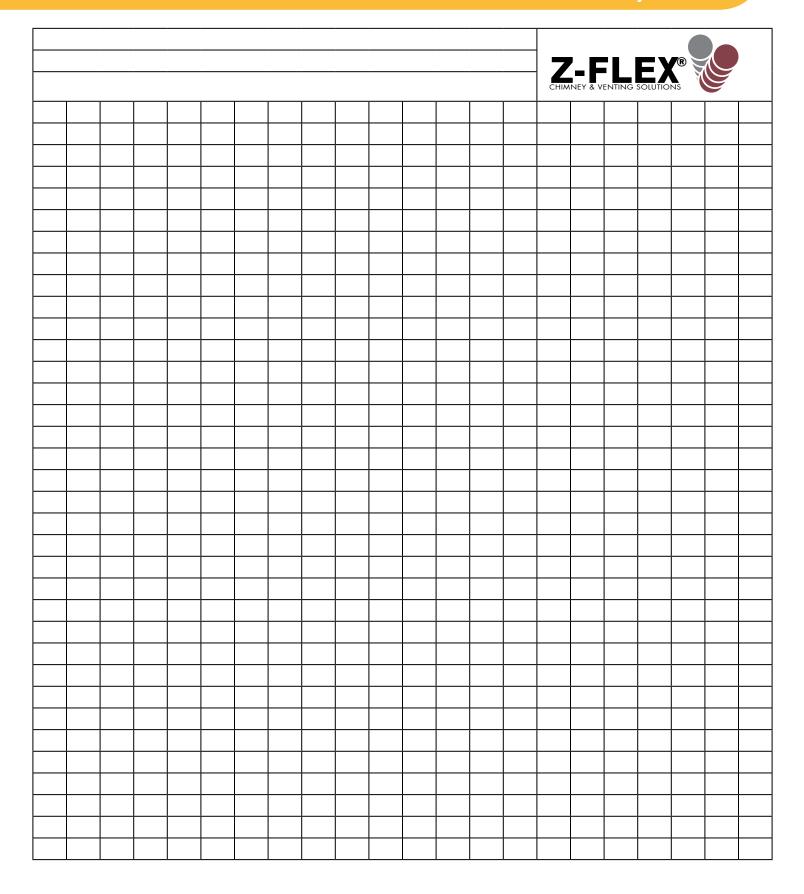
On a separate sheet please provide a desired layout drawing/sketch showing the dimensions on elevation and plan views as per this example





Examples of required information





Z-FLEX®

The Flexible Venting Solutions Specialist

Z-FLEX®, part of the Novaflex Group of companies, is the leading manufacturer of specialty venting systems for furnaces, boilers, water heaters, oil heaters, fireplaces, and more.

Z-FLEX® has been providing flexible answers to gas oil, pellet and wood venting applications since 1979. We have pioneered flexible chimney liner solutions and special gas vent (AL29-4C®).*

A variety of innovations in materials and construction have led to products that deliver:

- Superior performance and increased efficiency
- Easier handling and faster, simpler installation
- Greater reliability, safety and increased service life

To that, we add responsive customer service and expert technical support.

The Novaflex Group® is a family owned manufacturing group of companies with one of the broadest product ranges available in the marketplace for the HVAC, industrial venting and hose industries. Throughout a more than thirty year history, Novaflex® has earned a solid reputation for providing innovative and high quality products.

*AL29-4C is a registered trademark of Allegheny Ludlum Corp.





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