



Advanced Venting Systems

Z-Flex 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 along with expert technical support.



Advanced Products FOR MAXIMUM PERFORMANCE

- PATENTED TRIPLE-LOCK DESIGN FOR STRENGTH
- COMPRESSED TO LOWER SHIPPING COSTS
- BEST AVAILABLE MATERIALS/ALLOYS
- 20+ YEARS OF MANUFACTURING EXPERIENCE
- "IMMEDIATE" AVAILABILITY (24-72 HR. LEAD TIME)
- LISTED BY UNDERWRITERS LABORATORIES

Safety Issues

Since the federal government required modern heating equipment to achieve higher efficiencies in 1992, safely venting them has become more of a challenge. Today's more efficient equipment produces lower flue gas temperatures than pre-1992 equipment. The low temperature flue gas provides little natural draft in chimneys and is more likely to condense into an acidic, and corrosive, solution. The result can cause property damage, personal injury, or death. The natural laws of physics that control this phenomenon pertain to all gas and oil fired equipment. Our three major product lines; chimney liners, special gas vent (AL29-4C® stainless steel), and flexible vent connectors are all designed to **prevent** flue gas condensation or **protect** against its corrosive effects. Most of the products Z-FLEX has developed are now recommended or required by the following national codes and testing agencies:

1992 National Fuel Gas Code

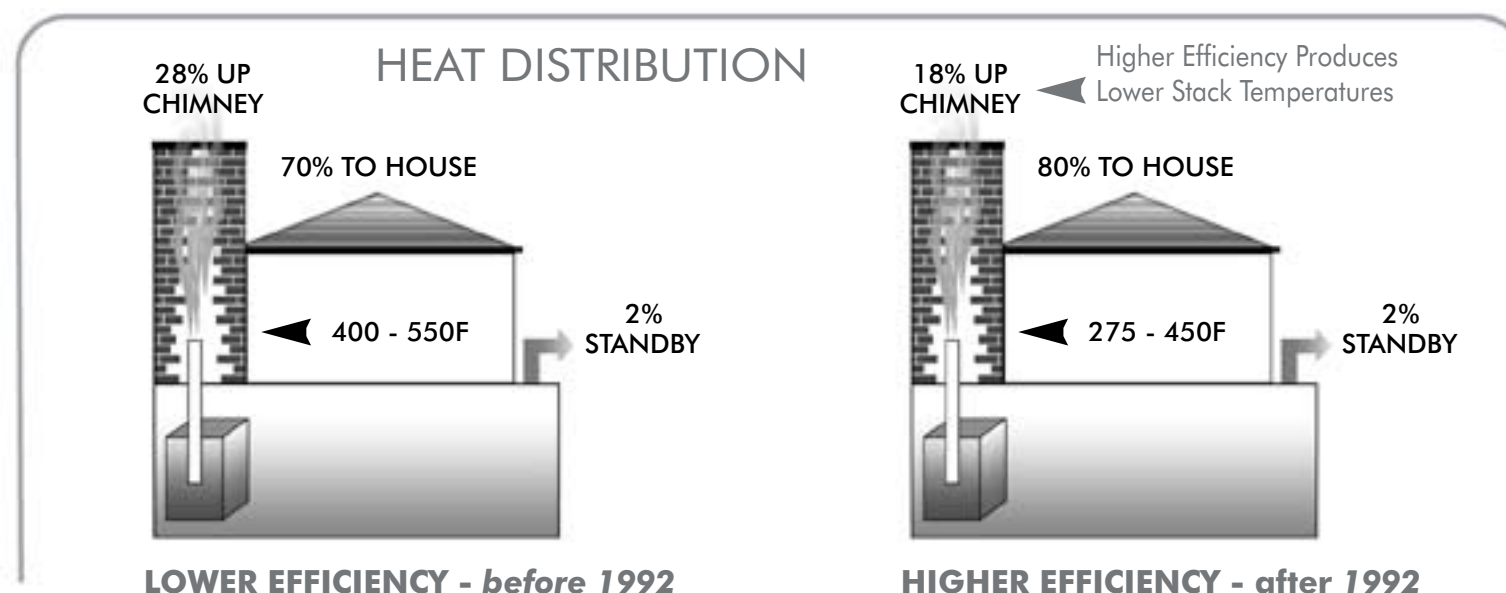
- Venting Tables for sizing Chimney Liners and Vent Connectors when adding or replacing equipment
- Insulated Connectors required in attics and other "cold" spaces

1997 NFPA 31 "Installation of Oil Burning Equipment"

- Venting Tables for sizing Chimney Liners

International Approval Services (formerly AGA)

- June, 1996 – IAS requires all Category III gas boilers and furnaces to use a UL 1738 approved vent system (like our Z-Vent)
- July, 1998 – IAS requires all Category III gas residential unit heaters to use a UL 1738 approved vent system (like our Z-Vent)



GAS APPLICATION

When to Z-FLEX a Chimney (from National Gas Code)

- When a masonry chimney has no liner at all
- When damage to existing chimney lining is evident
- When retrofit appliance has fan-assisted combustion and is vented alone
- When additional or replacement equipment is installed or an appliance is converted to gas from another fuel
- When the existing chimney is oversized relative to heating requirement

Z-FLEX INSUL-LINER™

Pre-insulated Chimney Liner for Category 1 Gas Heating Equipment & Gas Fireplaces

Insul-Liner is another "simple solution" from Z-FLEX. The National Fuel Gas Code (NFPA 54, ANSI Z223.1) recommends, but does not require, that liners be insulated in certain situations.

A good rule of thumb is to use an insulated liner in exterior chimneys or when a brick chimney has no clay liner at all. The insulation will keep the flue gases warm to prevent condensation. Also refer to the equipment manufacturer's instructions for their recommendations.

Insul-Liner can be substituted for B-Vent when relining a masonry chimney.

Insul-Liner is insulated at the factory and protected with an outer aluminum jacket. This eliminates the time needed to insulate on the jobsite and prevents damage to the insulation during installation. Simply remove from the box and install.



Insul-Liner Kit Includes:

- Insulated Aluminum Liner
- Chimney Flashing
- Rain Cap
- Mortar Collar
- 3 Screws

Part # 2GIAKXX Dia. ___ Lgth.
Available in 3"-8" Diameters & 15' Lengths.



Insul-Liner Gas Fireplace Kit Includes:

- Insulated Aluminum Liner
- Chimney Flashing
- Rain Cap
- Fireplace Connector
- 3 Screws

Part # 2GIAFKX Dia. ___ Lgth.
Available in 4", 5", 6" Diameters & 15' Lengths.

Aluminum Chimney GAS LINER KITS



Flashing

- 16"x 16" Plate
- Galvanized Material
- Strong

NEW BIRD PROOF RAINCAP

Rain Cap

- Wind-proof
- Bird Resistant
- Attractive
- Prevents Entrance of Moisture/Debris

Flexible Aluminum Liner

Special Characteristics

- Patented Triple-Lock Mechanical Joint
- Manufactured from Dead Soft Pure Aluminum



Significant Advantages

- Greater Flexibility
- Exceptional Strength
- Corrosion Resistant
- Air-tight and Leakproof
- Vibration Deadening Properties
- Light Weight
- Highly Puncture Resistant
- High Pressure Rating

Fireplace Connector

- Gas Fireplace Kits only

Mortar Collar

- Simple to Install
- Clean Look
- Corrosion-resistant Material

- Z-FLEX Aluminum Chimney Liner Kits come complete with everything you need to quickly and easily install a professional venting system.
- Z-FLEX liner is manufactured by using a dead soft aluminum strip which is spirally wound and **MECHANICALLY** joined together forming an air-tight and leakproof **TRIPLE-LOCK** seam.
- Z-FLEX's specially designed 'deep corrugations' provide for greater flexibility and ease of installation. The result is a clearly superior product offering incredible longevity.



Aluminum Liner Kit Includes:

- 2-Ply Aluminum Liner
- Chimney Flashing
- Rain Cap
- Mortar Collar
- 3 Screws

Part # 2GACKIT Dia. ___ Lgth.
Available in 3"-10" Diameters & 15' - 50' Lengths.

Gas Fireplace Kit Includes:

- 2-Ply Aluminum Liner
- Chimney Flashing
- Rain Cap
- Fireplace Adapter (Single Appliance)
- 3 Screws

Part # 2GAFKXX Dia. ___ Lgth.
Available in 3"-10" Diameters & 15' - 50' Lengths.



Nose Cone

Part # 2NCXXX Dia. ___
Available in 3", 4", 5", 6", 7", 8", 10" Diameters.



Galvanized "Y"

Part # 2GAYXXX Dia. ___
Available in: 3" to 8" Diameters.
Connects two vent connectors to common vent.



Additional Length Aluminum 2-Ply Liner

Part # 2GAXXXX Dia. ___ Lgth.
Available in multiples of 5' to 50'.



Liner Coupling

Part # 2CNTRG Dia. ___
Available in 3"-10" diameters
Custom sizes available.
Used to attach two lengths of pipe.



B-Vent Connector

Part # 2CNNBFC Dia. ___
Available in 3"-10" diameters
Connects B-Vent to Z-FLEX liner.

ALL FUEL APPLICATION

When to Z-FLEX a Chimney

- When a masonry chimney has no liner at all
- When damage to existing chimney lining is evident
- When new burner is installed on existing equipment
- When firing rate of existing burner is reduced
- When a new appliance is connected to an existing chimney
- When the existing chimney is oversized relative to heating equipment

Z-FLEX Stainless Steel Chimney Liner Kits come complete with everything you need to quickly and easily install a professional venting system. Z-FLEX is engineered to quickly conduct heat, assisting in a natural draft system. It is manufactured from special high temperature and acid resistant stainless steel exclusive to Z-FLEX. Z-FLEX's specially designed 'deep corrugations' provide for greater flexibility and ease of installation. The result is a clearly superior product offering incredible longevity.



Pellet, Oil & Gas Kit Includes:

- Stainless Steel Liner
 - Chimney Flashing
 - Rain Cap
 - Mortar Collar
 - Top Support
- Part # 201LKTX ____ Dia. ____ Lgth.
Available in 3" - 24" Diameters & Lengths to 50'.



Solid Fuel Kit* Includes:

- Stainless Steel Liner
 - Chimney Flashing
 - Rain Cap
 - Top Support
 - Stacking Tee
 - A-Connector
- Part # 22FLKIT ____ Dia. ____ Lgth.
Available in 3" - 24" Diameters & Lengths to 50'.

*Insulating Blanket Kit must be installed for a woodburning application (U.S. only)

Stainless Steel Chimney OIL + SOLID FUEL LINER KITS



Flexible S/S Round

Part # 22LSSXX ____ Dia. ____ Lgth.
Part # 22L294C ____ Dia. ____ Lgth.
Available in 2" - 24" Diameters. Lengths to 50'.
Multiples of 5'.



Reducer/Increaser

Reducer Part # 2RD ____ (dia)R ____ (dia)X
Increaser Part # 2IN ____ (dia)I ____ (dia)X
Available in 3" - 24" Diameters.



3-Piece 45 Adjustable Elbow

Part # 2RE45XX ____ Dia.
Available in 3" - 24" Diameters.



4-Piece 90 Adjustable Elbow

Part # 2RE90XX ____ Dia.
Available in 3" - 24" Diameters.



Dripless Type "A" Connector

Part # 2CNTRC ____ Dia.
Available in 3" - 24" Diameters
Used to mate Z-FLEX Liner to the T-Section, stove-pipe or when going through a fireplace adapter.



Nose Cone

Part # 2NCCXX ____ Dia.
Available in 3" - 24" Diameters
To attach to liner, attach rope to cone and pull rope down chimney.



Insulating Blanket w/ Wrap & Gear Clamps

Part # 2INSKIT ____ Dia.
Includes 2 gear clamps per 5' section.



Stacking Tee w/ Cap

Part # 2ZRBTTX ____ Dia.
Available in 3" - 24" Diameters.
Note: Z-FLEX Tees are designed to be used with both the Flex and Rigid Lining Systems. Use Type "A" Connector to attach Flex to Tee section.



Stainless Steel Chimney Flashing

Starter Collar 16" x 16" Base
Part # 2ZSCSXX ____ Dia.
Available in 3" - 24" Diameters.



Stainless Steel Rigid Liner

Part # 22R321F ____ Dia. ____ Lgth.
Available in 3" - 24" Diameters.



Rain Cap

Part # 2RNCAPS ____ Dia.
Available in 3" - 24" Diameters.



Top Support

Part # 2ZTSXX ____ Dia.
Available in 3" - 24" Diameters.



Rain Cap

- Wind-proof
- Bird Resistant
- Attractive
- Prevents Entrance of Moisture/Debris
- Corrosion Resistant

Flashing

- 16" x 16" Base Plate
- Stainless Steel Material
- Strong
- Corrosion Resistant



Flexible Stainless Steel Liner

Special Characteristics

- Patented Triple-Lock Mechanical Joint
- Manufactured from special high temperature and acid-resistant stainless steel exclusive to Z-FLEX



Significant Advantages

- Greater Flexibility
- Exceptional Strength
- Corrosion Resistant
- Air-tight and Leakproof
- Vibration Deadening Properties
- Light Weight
- Highly Puncture Resistant
- High Pressure Rating



Double Wall Dripless Type "A" Connector

Base Tee (Cleanout)

- 3pc. with removeable snout and clean out
- All stainless steel
- Fail-safe mechanical connection from snout to body

Mortar Collar

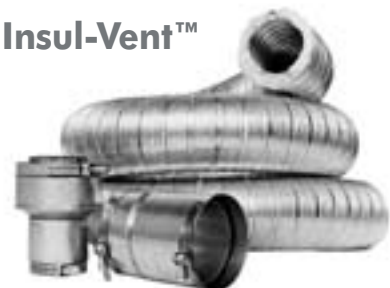
- Convenient
- Clean Look
- Corrosion Resistant Material
- Easy to Install

Flexible Gas Vent CONNECTOR SYSTEM

Flexible Oil Vent CONNECTOR SYSTEM

- Insul-Vent™ is a double-wall insulated vent connector. Insul-Vent is designed to make insulated connections between appliance and common vent (i.e. B-Vent, masonry chimney, or Z-FLEX chimney liner products), easy and economical. Simply cut to desired length and attach quick-connect ends. No drilling or screwing is required. Plus it eliminates costly elbows and accessories.
- Single-Vent™ is a single wall flexible vent connector. Single-Vent, like Insul-Vent, is designed to make difficult installations easy and economical. It replaces rigid single pipe as a vent connector. Both products, like all our other flexible products, are manufactured with our patented triple lock seam. Insul-Vent and Single-Vent are UL listed.

Insul-Vent™

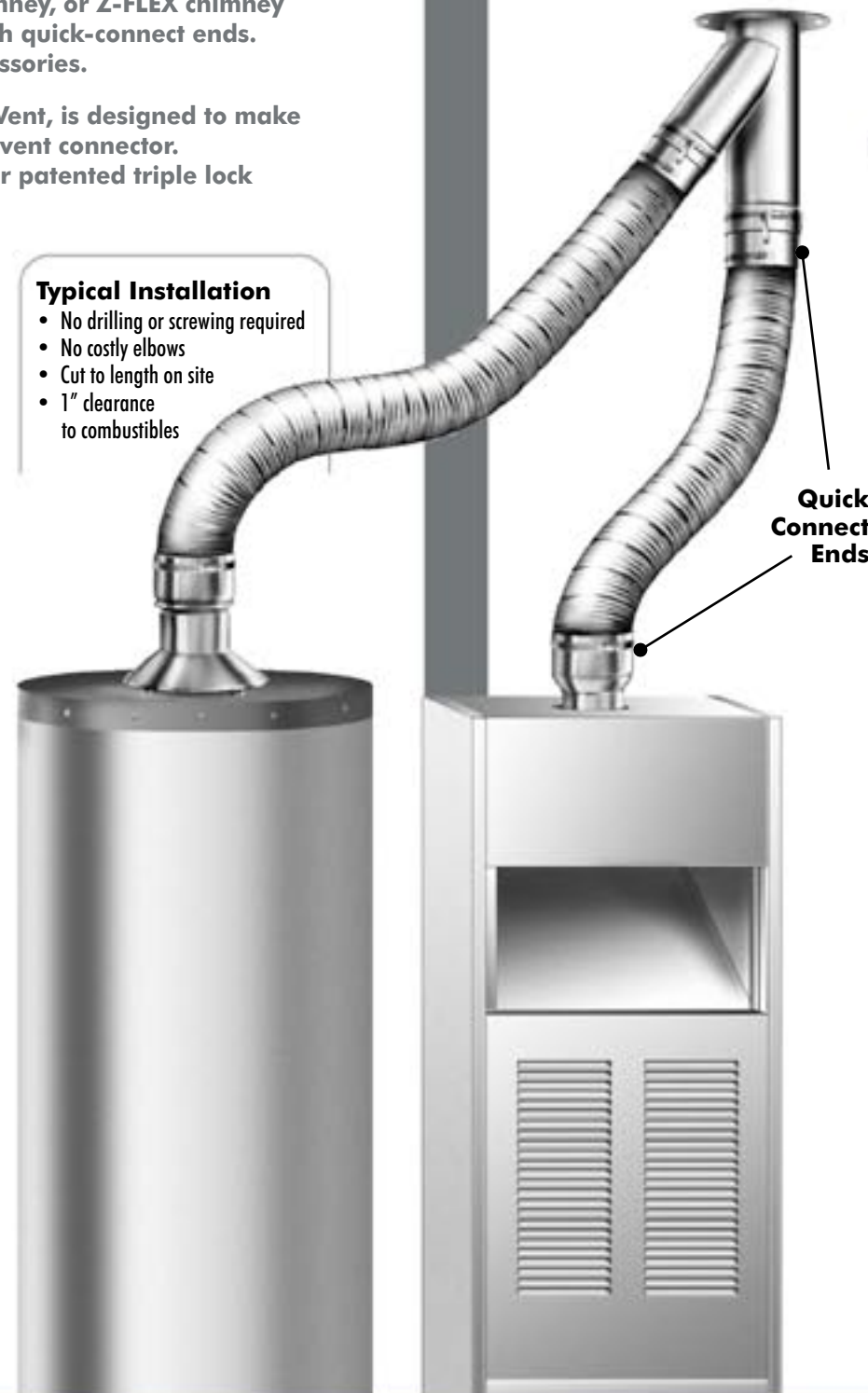


Single-Vent™



Typical Installation

- No drilling or screwing required
- No costly elbows
- Cut to length on site
- 1" clearance to combustibles



Double Wall Insulated Vent Connector Kit Includes:

- Length of Double Wall Flex
- Appliance Connector
- Universal Connector

Part # 22IKXXX Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.

Single Wall Vent Connector Kit Includes:

- Length of Single Wall Flex
- Appliance Connector
- Universal Connector

Part # 2SVKXXX Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.



Insul-Vent Universal Connector

Part # 21VUCXX Dia.
The universal connectors fit any type of single wall pipe, any Type B-Vent or Z-FLEX Chimney Liner.



Insul-Vent Appliance Connector

Part # 22ICPRP Dia.



Additional Length of Insul-Vent

Part # 21NSGAC Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.



Single-Vent Universal Connector

Part # 2SVUCXX Dia.
The universal connectors fit any type of single wall pipe, any Type B-Vent or Z-FLEX Chimney Liner.



Single-Vent Appliance Connector

Part # 22SCPRP Dia.

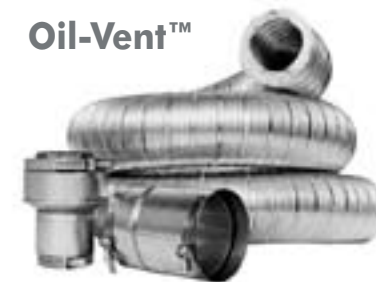


Additional Length of Single-Vent

Part # 2GAXXX Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 50'.

- Oil-Vent™ double-wall insulated vent connector is designed to make insulated connections between appliance and common vent (i.e. L-Vent, masonry chimney, or Z-FLEX chimney liner products), easy and economical. Simply cut to desired length and attach quick-connect ends. No drilling or screwing is required. Plus it eliminates costly elbows and accessories. Equivalent to Type L.
- Oil-Vent™ single wall flexible vent connector is designed to make difficult installations easy and economical. It replaces rigid single pipe as a vent connector. Both products, like all our other flexible products, are manufactured with our patented triple lock seam. Double-Wall and Single-Wall Oil-Vent are UL listed and offer 1" clearance to combustibles.

Oil-Vent™



Oil-Vent™



Double Wall Insulated Vent Connector Kit Includes:

- Length of Double Wall
- Appliance Connector
- Universal Connector

Part # 20VIKIT Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.

Single Wall Vent Connector Kit Includes:

- Length of Single Wall
- Appliance Connector
- Universal Connector

Part # 20VSKIT Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.



Oil-Vent Double Wall Universal Connector

Part # 20VIUCX Dia.
The universal connectors fit any type of single wall pipe, any Type L-Vent or Z-FLEX Chimney Liner.



Oil-Vent Double Wall Appliance Connector

Part # 20VIACX Dia.



Additional Length of Oil-Vent Double Wall

Part # 20IIVENT Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 18'.



Oil-Vent Single Wall Universal Connector

Part # 20VSWUC Dia.
The universal connectors fit any type of single wall pipe, any Type L-Vent or Z-FLEX Chimney Liner.



Oil-Vent Single Wall Appliance Connector

Part # 20VSWAC Dia.



Additional Length of Oil-Vent Single Wall

Part # 22LSXX Dia. Lgth.
Available in 3", 4", 5", 6", 7", 8" Diameters
Available in lengths to 50'.



Z-Vent IS DESIGNED FOR USE WITH BOILERS, HIGH EFFICIENCY FURNACES, POOL HEATERS, UNIT HEATERS & WATER HEATERS.

The latest developments in high efficiency heating equipment calls for state-of-the-art venting designs. Z-Vent is specifically designed for today's ANSI category I, II, III, IV condensing and non-condensing, positive and negative pressure systems. cULus listed to standards 1738/BH636, Z-Vent is manufactured in a full range of residential and commercial sizes from 3" – 24", single and double wall. A full range of engineering services is available to design systems. Visit our website for more information www.z-flex.com info center. Z-Vent is manufactured using AL29-4C® advanced ferritic stainless steel** with unmatched corrosion resistance for use with condensing furnaces and boilers. Z-Vent is manufactured utilizing a fail-safe gasket connection. No sealant is required.

**Now available
in sizes 3" - 24"**



Appliance connectors available for most equipment. Please refer to price guide. See website for list of equipment – www.z-flex.com

Z-Vent SPECIAL GAS VENT FOR CATEGORY II, III, IV HEATING EQUIPMENT

Connects in a Snap!

- Simple gasketed connection – no sealant needed††
- Features the highest pressure rating in the industry
- The only metallic special gas vent you can **cut to length on site**
- New fusion welded pipe seams for a smoother finish and better fit
- 1" clearance to combustibles – can be installed where clearances are minimal

† Pipe Length Available – 6", 1' to 5', 8', 10'

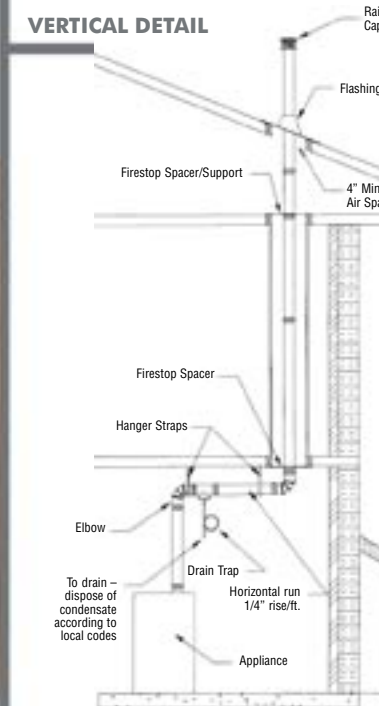
†† Patent Pending



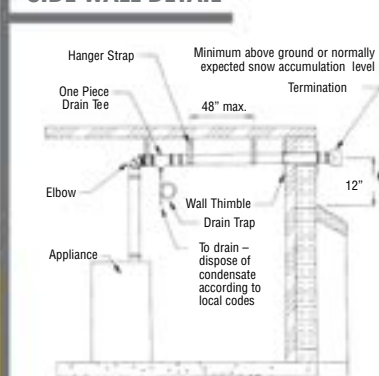
**CUT TO LENGTH
IN THE FIELD**

TYPICAL INSTALLATIONS:*

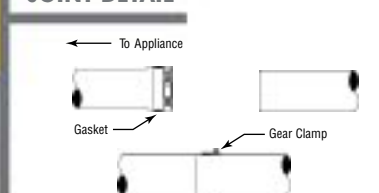
VERTICAL DETAIL



SIDE WALL DETAIL



JOINT DETAIL



* All drawings are for illustrative purposes only. Please refer to guide for specific U.L. installation instructions. Always defer to local building codes.
** AL29-4C is a registered trademark of Allegheny Ludlum Steel Corporation

ALL FUEL APPLICATION

All Fuel OVAL LINER SYSTEM



Flexible S/S Oval to Round

Part # 2ZLSSOR ____ Dia. ____ Lgth.

Available in 6", 7", 8", 10" Diameters

Note: To be used in those areas that are re-sealable in one application. Oval accessories available.



Flexible S/S Full Oval

Part # 2ZLSSOX ____ Dia. ____ Lgth.

Available in 6", 7", 8", 10" Diameters

Note: Oval accessories available.



Stainless Steel Dripless Type "A" Oval Connector

Part # 2CNNTRA ____ OV ____ Dia.

Available in 6", 7", 8", 10" Diameters

Used to join Z-FLEX Oval Liner to Oval T-Section and Oval to Oval Liner or when going through a fireplace adapter.



Stainless Steel Single Oval Base/Tee

Part # 2ZRBTOX ____ Dia.

Available in 6", 7", 8", 10" Diameters.



Oval to Round Adapter

Part # 2ZRORAX ____ Dia.

Available in 6", 7", 8", 10" Diameters.



Round to Oval Adapter

Part # 2ZROOAX ____ Dia.

Available in 6", 7", 8", 10" Diameters.

THE EASY-TO-APPLY SOLUTION...

Liner Finders

APPLY THE RIGHT LINER EVERY TIME WITH LINER FINDER™ FROM Z-FLEX.

Our Gas and Oil Liner Finders make it fast and easy to match the right Z-FLEX product and size to the liner application. The convenient "slide rule" design is simple to use, portable, and foolproof.



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