

Z-VENT Commercial

Z-VENT IV Systems

Sold by Cinnabar Equipment Co.

972-422-4441



Suggested Specification:

Venting shall be Z-Vent model SVE IV as manufactured by Z-Flex. The vent system shall consist of factory welded pipe and fittings incorporating a factory fitted sealing gasket which, when installed in accordance with the manufacturers 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

Z-VENT IV

Features gasketed connections

No sealant required—no cure time, no call backs

The highest pressure rating in the industry

More than 5 times the industry standard and 2.5 times higher than our competitors.

Fusion welded pipe seams

Provides an air-tight seam, smooth finish and a better fit.

The only metallic special gas vent that can be cut to length on site (single wall only)

Being able to cut the product in the field will save you time and money.

Pipe available from 3" to 24".

Z-VENT IV is a revolutionary self sealing Special Gas Vent System that dramatically reduces the total installed vent system cost.

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

Air and water tight connections ensure optimum vent performance and reliability.

Z-VENT model SVE IV Special Gas Vent System

is tested and listed by Underwriters Laboratories to UL 1738 Venting Systems for Gas-Burning Appliances, Category II,III and IV.

Patented Sealing System

Z-VENT IV components are supplied with factory installed, patented, fail safe sealing gaskets.

The gaskets special design along with precision engineered close tolerance construction components ensure an air and water tight fit.

Leakage tested to 2 1/2 times the UL pressure rating of 8" W.C.

Z-VENT MODEL SVE IV SPECIAL GAS VENT SYSTEM

Technical Data Sheet

APPLICATION

Z-VENT is a factory built, engineered AL 29-4C special gas venting 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).

Model SVE IV Single Wall, 3 to 24in. dia.

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. When the vent system is installed in an unenclosed horizontal installation, a minimum clearance to combustible construction of 3 in. must be maintained. When the vent system is installed in an unenclosed vertical installation, a minimum clearance to combustible construction of 3 in. must be maintained. When the vent system is installed in an enclosed vertical installation, a minimum clearance to combustible construction of 6 in. must be maintained. See manufacturer's installation instructions and appliance manufacturer's instructions for recommended clearances at other vent temperatures.

Model SVE IV Double Wall, 3 to 24in. dia.

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. When the vent system is installed in an unenclosed horizontal installation, a minimum clearance to combustible construction of 2 in. must be maintained. When the vent system is installed in an unenclosed vertical installation, a minimum clearance to combustible construction of 2in. must be maintained. When the vent system is installed in an enclosed vertical installation, a minimum clearance to combustible construction of 6in. must be maintained. See manufacturer's installation instructions and appliance manufacturer's

instructions for recommended clearances at other vent temperatures.

CONSTRUCTION

The inner flue is manufactured from superferritic AL 29-4C stainless steel. The 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 gasket system provides air and water tight connections with no sealant required. Leakage tested to 2 1/2 times the UL listed pressure rating of 8" water column.

The double wall system has a one inch air space between the vent walls providing an insulation factor. This 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. 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.

PATENTED SEALING SYSTEM

Z-VENT components are supplied with factory installed, patented (US patent 6-523-865), self-sealing gaskets. The gaskets special design along with precision engineered close tolerance construction ensure an air and water tight fit leakage tested to 2 ½ times the UL pressure rating of 8" W.C.

APPROVAL

3 to 12in. UL tested and listed to UL1738/S636 Venting Systems for Gas-Burning Appliances, Category II, III and IV. File MH 18505

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Z-Vent Single Wall

AL29-4C Special Gas Vent

Technical and Dimensional Data

ISOMETRIC VIEW



Z-FLEX

THE
NOVAFLEX
GROUP

DOCK "E"



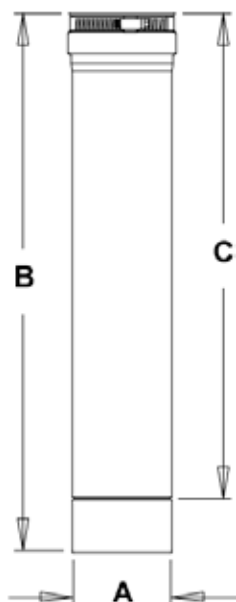
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Z-Vent Single Wall AL29-4C Special Gas Vent



Pipe



Available in diameters 3in to 24in and standard lengths up to 10ft (3in and 4in diameter only). Pipe can be cut to length. The female end of each Z-Vent component incorporates a silicone sealing gasket. Examine all components to ensure that gasket integrity has remained during shipping. Gaskets must be in proper position or flue gases could leak resulting in carbon monoxide poisoning. The installation shall be in accordance with the manufacturer's installation instructions.

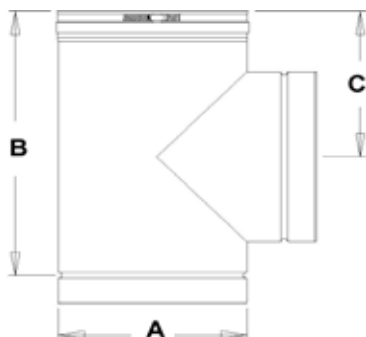
A	B	C	Part Number	Description
3in	6	4	2SVEPWC03.5	Z-Vent Pipe 3in x 6in
	12	10	2SVEPWCF0301	Z-Vent Pipe 3in x 1 ft
	18	16	2SVEPWCF0301.5	Z-Vent Pipe 3in x 1.5ft
	24	22	2SVEPWCF0302	Z-Vent Pipe 3in x 2ft
	36	34	2SVEPWCF0303	Z-Vent Pipe 3in x 3ft
	48	46	2SVEPWCF0304	Z-Vent Pipe 3in x 4ft
	60	58	2SVEPWCF0306	Z-Vent Pipe 3in x 5ft
	96	94	2SVEPWCF0308	Z-Vent Pipe 3in x 8ft
	120	118	2SVEPWCF0310	Z-Vent Pipe 3in x 10ft
4in	6	4	2SVEPWCF04.5	Z-Vent Pipe 4in x 6in
	12	10	2SVEPWCF0401	Z-Vent Pipe 4in x 1 ft
	18	16	2SVEPWCF0401.5	Z-Vent Pipe 4in x 1.5ft
	24	22	2SVEPWCF0402	Z-Vent Pipe 4in x 2ft
	36	34	2SVEPWCF0403	Z-Vent Pipe 4in x 3ft
	48	46	2SVEPWCF0404	Z-Vent Pipe 4in x 4ft
	60	58	2SVEPWCF0405	Z-Vent Pipe 4in x 5ft
	96	94	2SVEPWCF0408	Z-Vent Pipe 4in x 8ft
	120	118	2SVEPWCF0410	Z-Vent Pipe 4in x 10ft
5in	6	4	2SVEPWC05.5	Z-Vent Pipe 5in x 6in
	12	10	2SVEPWC0501	Z-Vent Pipe 5in x 1 ft
	18	16	2SVEPWC0501.5	Z-Vent Pipe 5in x 1.5ft
	24	22	2SVEPWC0502	Z-Vent Pipe 5in x 2ft
	36	34	2SVEPWC0503	Z-Vent Pipe 5in x 3ft
	48	46	2SVEPWC0504	Z-Vent Pipe 5in x 4ft
6in	6	4	2SVEP06.5	Z-Vent Pipe 6in x 6in
	12	10	2SVEP0601	Z-Vent Pipe 6in x 1 ft
	18	16	2SVEP0601.5	Z-Vent Pipe 6in x 1.5ft
	24	22	2SVEP0602	Z-Vent Pipe 6in x 2ft
	36	34	2SVEP0603	Z-Vent Pipe 6in x 3ft
7in	6	4	2SVEP07.5	Z-Vent Pipe 7in x 6in
	12	10	2SVEP0701	Z-Vent Pipe 7in x 1 ft
	18	16	2SVEP0701.5	Z-Vent Pipe 7in x 1.5ft
	24	22	2SVEP0702	Z-Vent Pipe 7in x 2ft
	36	34	2SVEP0703	Z-Vent Pipe 7in x 3ft
8in	6	4	2SVEP8.5	Z-Vent Pipe 8in x 6in
	12	10	2SVEP801	Z-Vent Pipe 8in x 1 ft
	18	16	2SVEP801.5	Z-Vent Pipe 8in x 1.5ft
	24	22	2SVEP802	Z-Vent Pipe 8in x 2ft
	36	34	2SVEP803	Z-Vent Pipe 8in x 3ft
	48	46	2SVEP804	Z-Vent Pipe 8in x 4ft

A	B	C	Part Number	Description
10in	6	4	2SVEP10.5	Z-Vent Pipe 10in x 6in
	12	10	2SVEP1001	Z-Vent Pipe 10in x 1 ft
	18	16	2SVEP1001.5	Z-Vent Pipe 10in x 1.5ft
	24	22	2SVEP1002	Z-Vent Pipe 10in x 2ft
	36	34	2SVEP1003	Z-Vent Pipe 10in x 3ft
12in	6	4	2SVEP12.5	Z-Vent Pipe 12in x 6in
	12	10	2SVEP1201	Z-Vent Pipe 12in x 1 ft
	18	16	2SVEP1201.5	Z-Vent Pipe 12in x 1.5ft
	24	22	2SVEP1202	Z-Vent Pipe 12in x 2ft
	36	34	2SVEP1203	Z-Vent Pipe 12in x 3ft
14in	6	4	2SVEP14.5	Z-Vent Pipe 14in x 6in
	12	10	2SVEP1401	Z-Vent Pipe 14in x 1 ft
	18	16	2SVEP1401.5	Z-Vent Pipe 14in x 1.5ft
	24	22	2SVEP1402	Z-Vent Pipe 14in x 2ft
	36	34	2SVEP1403	Z-Vent Pipe 14in x 3ft
16in	6	4	2SVEP16.5	Z-Vent Pipe 16in x 6in
	12	10	2SVEP1601	Z-Vent Pipe 16in x 1 ft
	18	16	2SVEP1601.5	Z-Vent Pipe 16in x 1.5ft
	24	22	2SVEP1602	Z-Vent Pipe 16in x 2ft
	36	34	2SVEP1603	Z-Vent Pipe 16in x 3ft
18in	6	4	2SVEP18.5	Z-Vent Pipe 18in x 6in
	12	10	2SVEP1801	Z-Vent Pipe 18in x 1 ft
	18	16	2SVEP1801.5	Z-Vent Pipe 18in x 1.5ft
	24	22	2SVEP1802	Z-Vent Pipe 18in x 2ft
	36	34	2SVEP1803	Z-Vent Pipe 18in x 3ft
20in	6	4	2SVEP20.5	Z-Vent Pipe 20in x 6in
	12	10	2SVEP2001	Z-Vent Pipe 20in x 1 ft
	18	16	2SVEP2001.5	Z-Vent Pipe 20in x 1.5ft
	24	22	2SVEP2002	Z-Vent Pipe 20in x 2ft
	36	34	2SVEP2003	Z-Vent Pipe 20in x 3ft
22in	6	4	2SVEP22.5	Z-Vent Pipe 22in x 6in
	12	10	2SVEP2201	Z-Vent Pipe 22in x 1 ft
	18	16	2SVEP2201.5	Z-Vent Pipe 22in x 1.5ft
	24	22	2SVEP2202	Z-Vent Pipe 22in x 2ft
	36	34	2SVEP2203	Z-Vent Pipe 22in x 3ft
24in	6	4	2SVEP24.5	Z-Vent Pipe 24in x 6in
	12	10	2SVEP2401	Z-Vent Pipe 24in x 1 ft
	18	16	2SVEP2401.5	Z-Vent Pipe 24in x 1.5ft
	24	22	2SVEP2402	Z-Vent Pipe 24in x 2ft
	36	34	2SVEP2403	Z-Vent Pipe 24in x 3ft

Z-Vent Single Wall AL29-4C Special Gas Vent

Tees

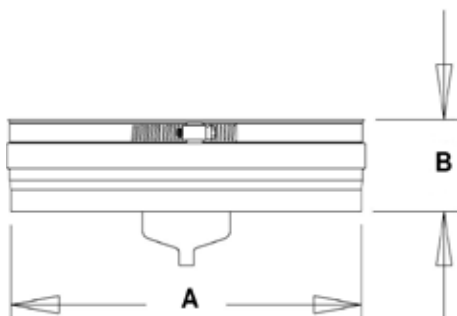
A tee is used to connect horizontal and vertical vent sections



A	B	C	Part Number	Description
5	10.5	6.5	2SVST05	Z-Vent Tee 5in
6	10.5	6.5	2SVST06	Z-Vent Tee 6in
7	12.5	7.5	2SVST07	Z-Vent Tee 7in
8	14.5	8.5	2SVST08	Z-Vent Tee 8in
10	18.5	10.5	2SVST10	Z-Vent Tee 10in
12	20.5	10.5	2SVST12	Z-Vent Tee 12in
14	22.5	12.5	2SVST14	Z-Vent Tee 14in
16	24.5	13.5	2SVST16	Z-Vent Tee 16in
18	26.5	14.5	2SVST18	Z-Vent Tee 18in
20	28.5	15.5	2SVST20	Z-Vent Tee 20in
22	30.5	16.5	2SVST22	Z-Vent Tee 22in
24	32.5	17.5	2SVST24	Z-Vent Tee 24in

Tee Cap with Drain

A tee cap with drain is required at the bottom of a vertical stack. High temperature silicone tubing is available separately.



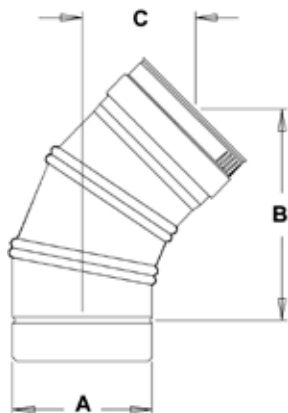
A	B	Part Number	Description
4	3	2SVSTCD04	Z-Vent Tee Cap 4in
5	3	2SVSTCD05	Z-Vent Tee Cap 5in
6	3	2SVSTCD06	Z-Vent Tee Cap 6in
7	3	2SVSTCD07	Z-Vent Tee Cap 7in
8	3	2SVSTCD08	Z-Vent Tee Cap 8in
10	3	2SVSTCD10	Z-Vent Tee Cap 10in
12	3	2SVSTCD12	Z-Vent Tee Cap 12in
14	3	2SVSTCD14	Z-Vent Tee Cap 14in
16	3	2SVSTCD16	Z-Vent Tee Cap 16in
18	3	2SVSTCD18	Z-Vent Tee Cap 18in
20	3	2SVSTCD20	Z-Vent Tee Cap 20in
22	3	2SVSTCD22	Z-Vent Tee Cap 22in
24	3	2SVSTCD24	Z-Vent Tee Cap 24in

Z-Vent Single Wall AL29-4C Special Gas Vent



45° Elbows

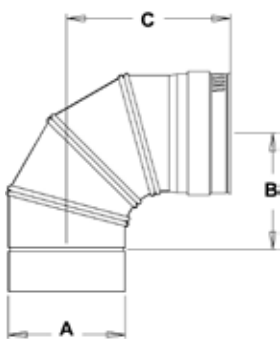
45° elbows are used when a direction change or offset is required.



A	B	C	Part Number	Description
3	3.5	2.25	2SVEEWCF0345	Z-Vent Elbow 45° x 3in
4	4	2.50	2SVEEWCF0445	Z-Vent Elbow 45° x 4in
5	4.5	2.50	2SVEEWC0545	Z-Vent Elbow 45° x 5in
6	4.75	2.75	2SVEE0645	Z-Vent Elbow 45° x 6in
7	5	4	2SVEE0745	Z-Vent Elbow 45° x 7in
8	5.5	4	2SVEE0845	Z-Vent Elbow 45° x 8in
10	6	4	2SVEE1045	Z-Vent Elbow 45° x 10in
12	6.5	4.50	2SVEE1245	Z-Vent Elbow 45° x 12in
14	7	4.50	2SVEE1445	Z-Vent Elbow 45° x 14in
16	7.75	5	2SVEE1645	Z-Vent Elbow 45° x 16in
18	9	6	2SVEE1845	Z-Vent Elbow 45° x 18in
20	10	6.50	2SVEE2045	Z-Vent Elbow 45° x 20in
22	11	7	2SVEE2245	Z-Vent Elbow 45° x 22in
24	12	7.50	2SVEE2445	Z-Vent Elbow 45° x 24in

90° Elbows

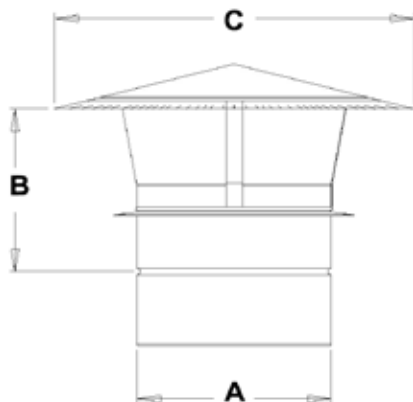
90° elbows are used when a direction change or offset is required.



A	B	C	Part Number	Description
3	3.75	5.75	2SVEEWCF0390	Z-Vent Elbow 90° x 3in
4	4.25	6.25	2SVEEWCF0490	Z-Vent Elbow 90° x 4in
5	4.5	6.75	2SVEEWC0590	Z-Vent Elbow 90° x 5in
6	5.25	7.25	2SVEE0690	Z-Vent Elbow 90° x 6in
7	6	7.5	2SVEE0790	Z-Vent Elbow 90° x 7in
8	7	8	2SVEE0890	Z-Vent Elbow 90° x 8in
10	7.75	9.75	2SVEE1090	Z-Vent Elbow 90° x 10in
12	9.25	10.50	2SVEE1290	Z-Vent Elbow 90° x 12in
14	9.5	11.25	2SVEE1490	Z-Vent Elbow 90° x 14in
16	10.75	12.75	2SVEE1690	Z-Vent Elbow 90° x 16in
18	11.50	13.50	2SVEE1890	Z-Vent Elbow 90° x 18in
20	12.25	14.75	2SVEE2090	Z-Vent Elbow 90° x 20in
22	13	15.25	2SVEE2290	Z-Vent Elbow 90° x 22in
24	14	16	2SVEE2490	Z-Vent Elbow 90° x 24in

Z-Vent Single Wall AL29-4C Special Gas Vent

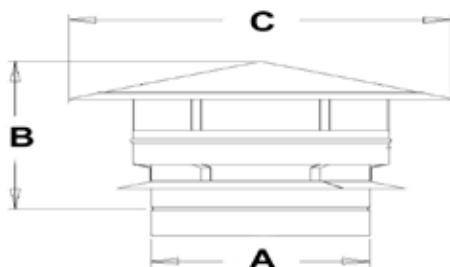
Low Resistance Rain Cap



A low resistance rain cap is designed to terminate a vertical stack and prevent the entrance of debris or rain into the vent. It also provides low resistance to flue gas flow.

A	B	C	Part Number	Description
5	5	10	2SVSRC05	Low Resistance Rain Cap 5in
6	5.5	11	2SVSRC06	Low Resistance Rain Cap 6in
7	6.5	13	2SVSRC07	Low Resistance Rain Cap 7in
8	7.25	15	2SVSRC08	Low Resistance Rain Cap 8in
10	9	18	2SVSRC10	Low Resistance Rain Cap 10in
12	11	22	2SVSRC12	Low Resistance Rain Cap 12in
14	12.75	26	2SVSRC14	Low Resistance Rain Cap 14in
16	14.5	30	2SVSRC16	Low Resistance Rain Cap 16in
18	16.5	34	2SVSRC18	Low Resistance Rain Cap 18in
20	18.25	38	2SVSRC20	Low Resistance Rain Cap 20in
22	20	41	2SVSRC22	Low Resistance Rain Cap 22in
24	22	45	2SVSRC24	Low Resistance Rain Cap 24in

Rain Cap



A rain cap is designed to terminate a vertical stack and prevent the entrance of debris or rain into the vent. Includes wind band to prevent draft loss.

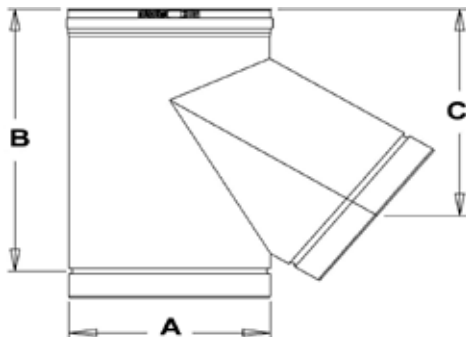
A	B	C	Part Number	Description
3	6	9	2SVSRCF03	Rain cap /w wind band 3in
4	6	9	2SVSRCF04	Rain cap /w wind band 4in
5	6.5	11.5	2SVSRCX05	Rain cap /w wind band 5in
6	6.5	13	2SVSRCX06	Rain cap /w wind band 6in
7	6.5	13	2SVSRCX07	Rain cap /w wind band 7in
8	6.5	13	2SVSRCX08	Rain cap /w wind band 8in
9	6.5	15	2SVSRCX09	Rain cap /w wind band 9in
10	8	13	2SVSRCX10	Rain cap /w wind band 10in
12	8	15	2SVSRCX12	Rain cap /w wind band 12in
14	8	15	2SVSRCX14	Rain cap /w wind band 14in
16	12	20	2SVSRCX16	Rain cap /w wind band 16in
18	12	23	2SVSRCX18	Rain cap /w wind band 18in
20	12	26	2SVSRCX20	Rain cap /w wind band 20in
22	12	29	2SVSRCX22	Rain cap /w wind band 22in
24	12	32	2SVSRCX24	Rain cap /w wind band 24in

Z-Vent Single Wall AL29-4C Special Gas Vent



Lateral 45°

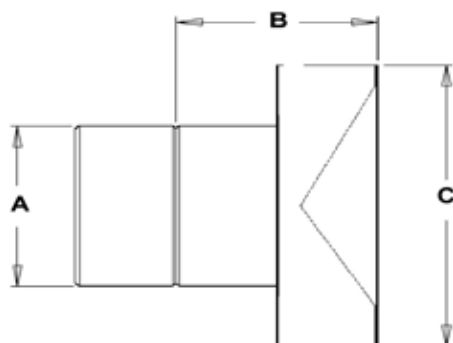
A lateral 45° is designed to allow a low flow resistance connection of horizontal and vertical sections. A tee cap is available separately.



A	B	C	Part Number	Description
5	13	12	2SVSL0545	Z-Vent Lateral 45° x 5in Tee
6	14	13	2SVSL0645	Z-Vent Lateral 45° x 6in Tee
7	15.5	14.5	2SVSL0745	Z-Vent Lateral 45° x 7in Tee
8	17	15	2SVSL0845	Z-Vent Lateral 45° x 8in Tee
10	20	17.5	2SVSL1045	Z-Vent Lateral 45° x 10in Tee
12	23	19.5	2SVSL1245	Z-Vent Lateral 45° x 12in Tee
14	26	21.5	2SVSL1445	Z-Vent Lateral 45° x 14in Tee
16	28.5	24	2SVSL1645	Z-Vent Lateral 45° x 16in Tee
18	31.5	26	2SVSL1845	Z-Vent Lateral 45° x 18in Tee
20	34.25	28	2SVSL2045	Z-Vent Lateral 45° x 20in Tee
22	37	30	2SVSL2245	Z-Vent Lateral 45° x 22in Tee
24	40	32.25	2SVSL2445	Z-Vent Lateral 45° x 24in Tee

Wall Termination

A wall termination is used to terminate a horizontal vent. The special design resists winds from affecting flue gas flow.

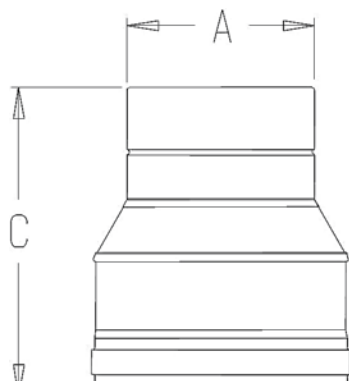


A	B	C	Part Number	Description
3	4	5	2SVSRTF03	Termination Box 3in
4	4	6	2SVSRTF04	Termination Box 4in
5	4.125	7	2SVSRTX05	Termination Box 5in
6	4.75	8	2SVSRTX06	Termination Box 6in
7	5.25	9	2SVSRTX07	Termination Box 7in
8	5.75	10	2SVSRTX08	Termination Box 8in
10	7	12	2SVSRTX10	Termination Box 10in
12	8	14	2SVSRTX12	Termination Box 12in
14	9	16	2SVSRTX14	Termination Box 14in
16	10	18	2SVSRTX16	Termination Box 16in
18	11	20	2SVSRTX18	Termination Box 18in
20	12	22	2SVSRTX20	Termination Box 20in
22	13	24	2SVSRTX22	Termination Box 22in
24	14	28	2SVSRTX24	Termination Box 24in

Z-Vent Single Wall AL29-4C Special Gas Vent

Increaser

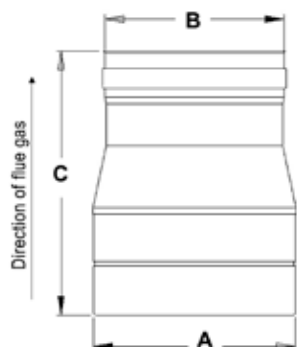
Used to upsize a vent system



A	B	C	Part Number	Description
3	4,5,6	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
4	5,6,7	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
5	6,7,8	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
6	7,8,10	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
7	8,10,12	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
8	10,12	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)
10	12	10	2SVSIO(A)O(B)	Z-Vent Increaser(A)to(B)

Reducer

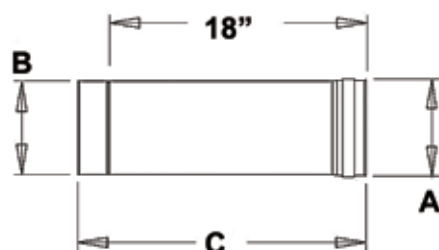
Used to downsize a vent system



A	B	C	Part Number	Description
12	10,8,7	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
10	8,7,6	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
8	7,6,5	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
7	6,5,4	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
6	5,4,3	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
5	4,3	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)
4	3	10	2SVSRO(A)O(B)	Z-Vent Reducer(A)to(B)

Adjustable 18in

The use of adjustable pipe may be required when the system must be located within extremely tight installation parameters.

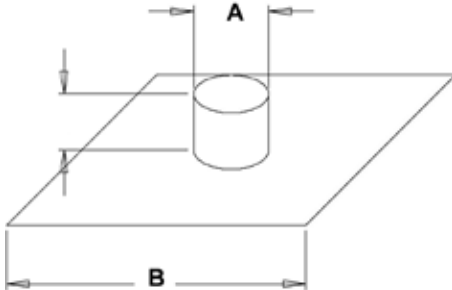


A	B	C	Part Number	Description
3	2.925	18	2SVSPA03	Z-Vent Adjustable Pipe 3in
4	3.925	18	2SVSPA04	Z-Vent Adjustable Pipe 4in
5	4.925	18	2SVSPA05	Z-Vent Adjustable Pipe 5in
6	5.925	18	2SVSPA06	Z-Vent Adjustable Pipe 6in
7	6.925	18	2SVSPA07	Z-Vent Adjustable Pipe 7in
8	7.925	18	2SVSPA08	Z-Vent Adjustable Pipe 8in
10	9.925	18	2SVSPA10	Z-Vent Adjustable Pipe 10in
12	11.925	18	2SVSPA12	Z-Vent Adjustable Pipe 12in
14	13.925	18	2SVSPA14	Z-Vent Adjustable Pipe 14in
16	15.925	18	2SVSPA16	Z-Vent Adjustable Pipe 16in
18	17.925	18	2SVSPA18	Z-Vent Adjustable Pipe 18in
20	19.925	18	2SVSPA20	Z-Vent Adjustable Pipe 20in
22	21.925	18	2SVSPA22	Z-Vent Adjustable Pipe 22in
24	23.925	18	2SVSPA24	Z-Vent Adjustable Pipe 24in

Z-Vent Single Wall AL29-4C Special Gas Vent

Flashing Flat

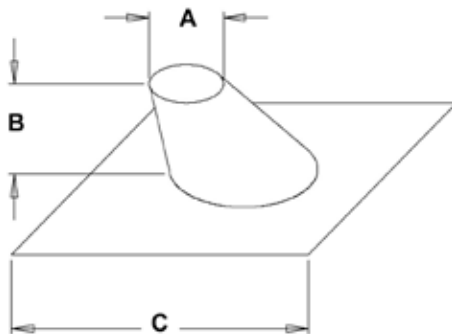
Flat flashing provides weather protection where the vent penetrates the roof or chimney. Use on flat or slightly sloped (5° slope maximum) roofs.



A	B	C	Part Number	Description
3	4	16	2SVSSCF03	Z-Vent Flashing Flat 3in
4	4	16	2SVSSCF04	Z-Vent Flashing Flat 4in
5	4	16	2SVSF05	Z-Vent Flashing Flat 5in
6	4	16	2SVSF06	Z-Vent Flashing Flat 6in
7	4	16	2SVSF07	Z-Vent Flashing Flat 7in
8	4	16	2SVSF08	Z-Vent Flashing Flat 8in
10	4	18	2SVSF10	Z-Vent Flashing Flat 10in
12	4	24	2SVSF12	Z-Vent Flashing Flat 12in
14	4	26	2SVSF14	Z-Vent Flashing Flat 14in
16	4	28	2SVSF16	Z-Vent Flashing Flat 16in
18	4	30	2SVSF18	Z-Vent Flashing Flat 18in
20	4	32	2SVSF20	Z-Vent Flashing Flat 20in
22	4	34	2SVSF22	Z-Vent Flashing Flat 22in
24	4	36	2SVSF24	Z-Vent Flashing Flat 24in

Flashing 0-30°

0-30° flashing provides weather protection where the vent penetrates the roof. Use on roofs with a pitch from 5-30°- 0/12-5/12 slope



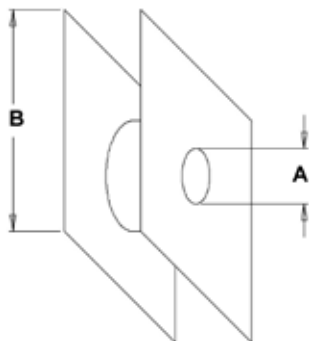
A	B	C	Part Number	Description
3	6	16	2SVSADJF03	Z-Vent 0-30° Flashing 3in
4	6	16	2SVSADJF04	Z-Vent 0-30° Flashing 4in
5	6	18	2SVSFA05	Z-Vent 0-30° Flashing 5in
6	6	20	2SVSFA06	Z-Vent 0-30° Flashing 6in
7	6	22	2SVSFA07	Z-Vent 0-30° Flashing 7in
8	6	24	2SVSFA08	Z-Vent 0-30° Flashing 8in
10	6	26	2SVSFA10	Z-Vent 0-30° Flashing 10in
12	6	28	2SVSFA12	Z-Vent 0-30° Flashing 12in
14	6	30	2SVSFA14	Z-Vent 0-30° Flashing 14in
16	6	32	2SVSFA16	Z-Vent 0-30° Flashing 16in
18	6	34	2SVSFA18	Z-Vent 0-30° Flashing 18in
20	6	36	2SVSFA20	Z-Vent 0-30° Flashing 20in
22	6	38	2SVSFA22	Z-Vent 0-30° Flashing 22in
24	6	40	2SVSFA24	Z-Vent 0-30° Flashing 24in

Z-Vent Single Wall AL29-4C Special Gas Vent



Wall Thimble

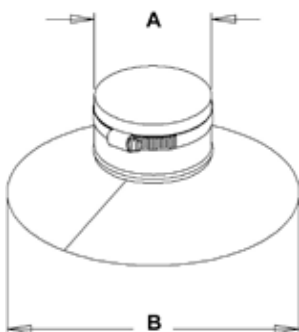
For use when the vent passes through a horizontal opening. Not required for non-combustible walls.



A	B	Part Number	Description
3	5	2SVSWTF03	Z-Vent Wall Thimble 3in
4	6	2SVSWTF04	Z-Vent Wall Thimble 4in
5	7	2SVSWTF05	Z-Vent Wall Thimble 5in
6	18	2SVSWTF06	Z-Vent Wall Thimble 6in
7	19	2SVSWTF07	Z-Vent Wall Thimble 7in
8	20	2SVSWTF08	Z-Vent Wall Thimble 8in
10	22	2SVSWT10	Z-Vent Wall Thimble 10in
12	24	2SVSWT12	Z-Vent Wall Thimble 12in
14	26	2SVSWT14	Z-Vent Wall Thimble 14in
16	28	2SVSWT16	Z-Vent Wall Thimble 16in
18	30	2SVSWT18	Z-Vent Wall Thimble 18in
20	32	2SVSWT20	Z-Vent Wall Thimble 20in
22	34	2SVSWT22	Z-Vent Wall Thimble 22in
24	36	2SVSWT24	Z-Vent Wall Thimble 24in

Storm Collar

For use in conjunction with flashing to provide weather protection

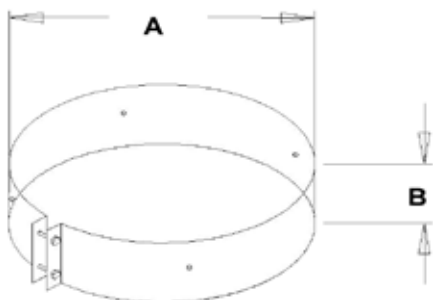


A	B	Part Number	Description
3	7	2SVSLSF03	Z-Vent Storm Collar 3in
4	8	2SVSLSF04	Z-Vent Storm Collar 4in
5	9	2SVSLS05	Z-Vent Storm Collar 5in
6	10	2SVSLS06	Z-Vent Storm Collar 6in
7	11	2SVSLS07	Z-Vent Storm Collar 7in
8	12	2SVSLS08	Z-Vent Storm Collar 8in
10	14	2SVSLS10	Z-Vent Storm Collar 10in
12	16	2SVSLS12	Z-Vent Storm Collar 12in
14	18	2SVSLS14	Z-Vent Storm Collar 14in
16	20	2SVSLS16	Z-Vent Storm Collar 16in
18	22	2SVSLS18	Z-Vent Storm Collar 18in
20	24	2SVSLS20	Z-Vent Storm Collar 20in
22	26	2SVSLS22	Z-Vent Storm Collar 22in
24	28	2SVSLS24	Z-Vent Storm Collar 24in

Z-Vent Single Wall AL29-4C Special Gas Vent

Guy Band

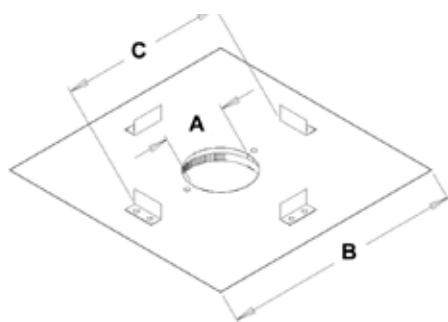
A guy band is used to stabilize the vent above the roof line or where a vent support can not be used. Secure with 4 guy wires (not included).



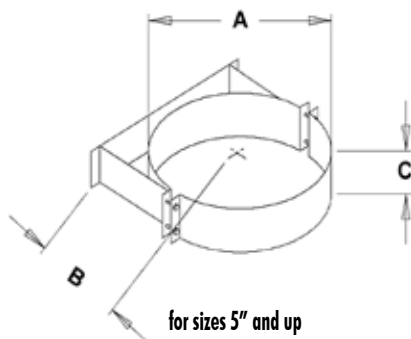
A	B	Part Number	Description
3	3	2SVSGB03	Z-Vent Guy Band 3in
4	3	2SVSGB04	Z-Vent Guy Band 4in
5	3	2SVSGB05	Z-Vent Guy Band 5in
6	3	2SVSGB06	Z-Vent Guy Band 6in
7	3	2SVSGB07	Z-Vent Guy Band 7in
8	3	2SVSGB08	Z-Vent Guy Band 8in
10	3	2SVSGB10	Z-Vent Guy Band 10in
12	3	2SVSGB12	Z-Vent Guy Band 12in
14	3	2SVSGB14	Z-Vent Guy Band 14in
16	3	2SVSGB16	Z-Vent Guy Band 16in
18	3	2SVSGB18	Z-Vent Guy Band 18in
20	3	2SVSGB20	Z-Vent Guy Band 20in
22	3	2SVSGB22	Z-Vent Guy Band 22in
24	3	2SVSGB24	Z-Vent Guy Band 24in

Firestop Support

A fire stop is used on vertical systems to provide support and maintain the necessary clearance to combustible materials. (For sizes 5" and up gear clamp comes loose with no gear clamp bracket.)



for sizes 3" & 4"

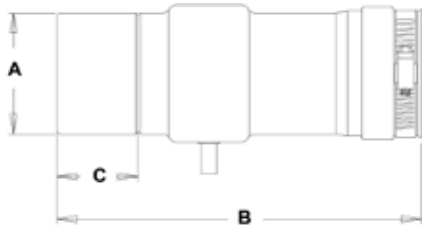


for sizes 5" and up

A	B	C	Part Number	Description
3	19	15	2SVSFSS03	Z-Vent Fire Stop Support 3in
4	20	16	2SVSFSS04	Z-Vent Fire Stop Support 4in
5	21	17	2SVSFSS05	Z-Vent Fire Stop Support 5in
6	22	18	2SVSFSS06	Z-Vent Fire Stop Support 6in
7	23	19	2SVSFSS07	Z-Vent Fire Stop Support 7in
8	24	20	2SVSFSS08	Z-Vent Fire Stop Support 8in
10	26	22	2SVSFSS10	Z-Vent Fire Stop Support 10in
12	28	24	2SVSFSS12	Z-Vent Fire Stop Support 12in
14	30	26	2SVSFSS14	Z-Vent Fire Stop Support 14in
16	32	28	2SVSFSS16	Z-Vent Fire Stop Support 16in
18	34	30	2SVSFSS18	Z-Vent Fire Stop Support 18in
20	36	32	2SVSFSS20	Z-Vent Fire Stop Support 20in
22	38	34	2SVSFSS22	Z-Vent Fire Stop Support 22in
24	40	36	2SVSFSS24	Z-Vent Fire Stop Support 24in

Z-Vent Single Wall AL29-4C Special Gas Vent

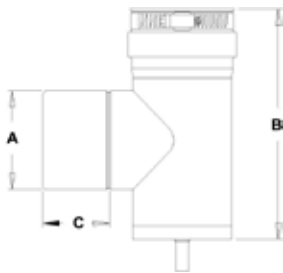
Horizontal Drain



A horizontal drain pipe is used to drain condensate from the vent system. The drain should be positioned as close as possible to the appliance and vent sloped towards it.

A	B	C	Part Number	Description
3	9	2	2SVEDWC03	Z-Vent Horizontal Drainpipe 3"
4	9	2	2SVEDWC04	Z-Vent Horizontal Drainpipe 4"

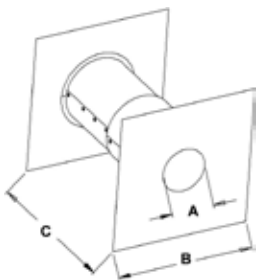
Vertical Drain Tee



A vertical drain pipe is used to drain condensate from the vent system. The drain should be positioned as close as possible to the appliance. High temperature silicone drain tube kit sold separately.

A	B	C	Part Number	Description
3	7	2	2SVEVWC04	Z-Vent Vertical Drainpipe 3"
4	10	2	2SVEVWC04	Z-Vent Vertical Drainpipe 4"

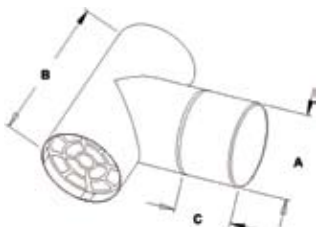
Extended Wall Thimble



For use when the vent passes through a horizontal opening. Not required for non-combustible walls.

A	B	C	Part Number	Description
3	10	6-11	2SVSWTE03	3in exterior wall thimble
4	10	6-11	2SVSWTE04	4in exterior wall thimble

Termination Tee



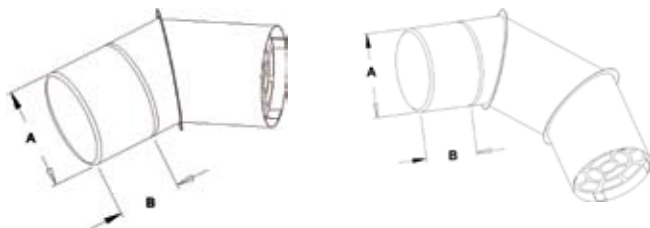
Used to terminate a horizontal or vertical vent.

A	B	C	Part Number	Description
3	6	2	2SVSTTX03	Z-Vent Termination Tee
4	7	2	2SVSTTX04	Z-Vent Termination Tee

Z-Vent Single Wall AL29-4C Special Gas Vent

Termination Elbow

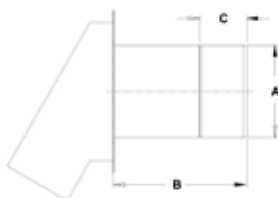
Used to terminate a horizontal vent



A	B	Part Number	Description
3	2	2SVSTEX0345	Z-Vent Termination Elbow 3 x 45
3	2	2SVSTEX0390	Z-Vent Termination Elbow 3 x 90
4	2	2SVSTEX0445	Z-Vent Termination Elbow 4 x 45
4	2	2SVSTEX0490	Z-Vent Termination Elbow 4 x 90

Termination Hood*

Used to terminate a horizontal vent section

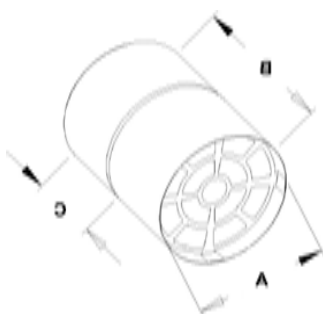


A	B	C	Part Number	Description
3	5.75	2	2SVSHTX03	Z-Vent Termination Hood 3in
4	5.75	2	2SVSHTX04	Z-Vent Termination Hood 4in

*Designed for use with Takagi Water Heaters

Termination Coupling

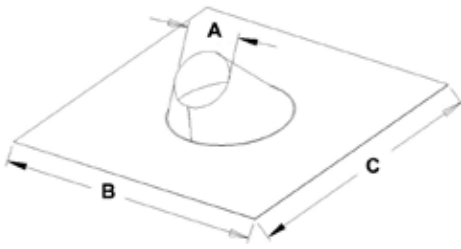
Used to terminate a horizontal vent section



A	B	C	Part Number	Description
3	4.25	2	2SVSTPX03	Z-Vent Termination Couplings 3in
4	4.25	2	2SVSTPX04	Z-Vent Termination Couplings 4in

Z-Vent Single Wall AL29-4C Special Gas Vent

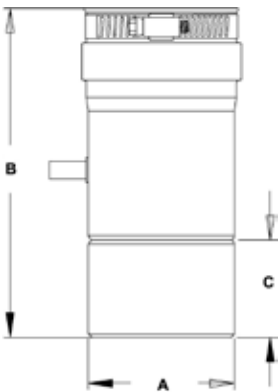
Steep Roof Flashing



Used where a vertical vent section passes through the roof. Accommodates roof pitches from 40° to 90° - 8/12-12/12. Storm collar sold separately.

A	B	C	Part Number	Description
3.25	16	16	2SVSADJS03	Steep Roof Flashing 3in
4.25	16	16	2SVSADJS04	Steep Roof Flashing 4in

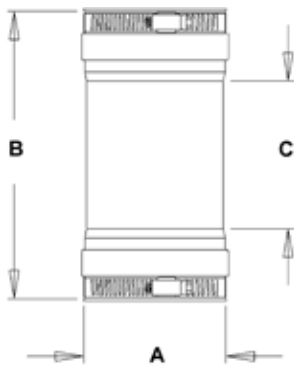
Vertical Drain Pipe



Used on vertical runs to drain condensate from the system. The drain should be positioned as close as possible to the appliance. High temperature silicone tube kit sold separately.

A	B	C	Part Number	Description
3	6.75	2	2SVSEVDP03	Z-Vent Vertical Drain Pipe 3in
4	6.75	2	2SVSEVDP04	Z-Vent Vertical Drain Pipe 4in

Adapter 6in (Double Female)

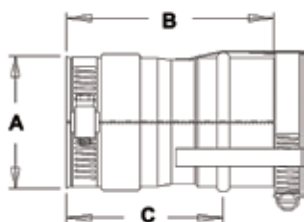


This special section is to adapt the appliance collar to the Z-Vent pipe

A	B	C	Part Number	Description
3	6	2	2SVSNA03.5	Z-Vent appliance adapter 3in
4	6	2	2SVSNA04.5	Z-Vent appliance adapter 4in
5	6	2	2SVSA05	Z-Vent appliance adapter 5in
6	6	2	2SVSA06	Z-Vent appliance adapter 6in
7	6	2	2SVSA07	Z-Vent appliance adapter 7in
8	6	2	2SVSA08	Z-Vent appliance adapter 8in
10	6	2	2SVSA10	Z-Vent appliance adapter 10in
12	6	2	2SVSA12	Z-Vent appliance adapter 12in
14	6	2	2SVSA14	Z-Vent appliance adapter 14in
16	6	2	2SVSA16	Z-Vent appliance adapter 16in
18	6	2	2SVSA18	Z-Vent appliance adapter 18in
20	6	2	2SVSA20	Z-Vent appliance adapter 20in
22	6	2	2SVSA22	Z-Vent appliance adapter 22in
24	6	2	2SVSA24	Z-Vent appliance adapter 24in

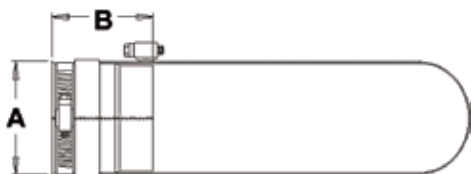
Z-Vent Single Wall AL29-4C Special Gas Vent

Weil-McLain Adaptor



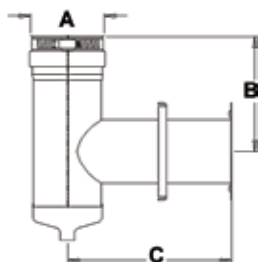
A	B	C	Part Number	Description
3	4.25	3.25	2SVEMGVX03	Weil-McLain GV Starter 3in (Series 2)

Weil-McLain CGI Adaptor



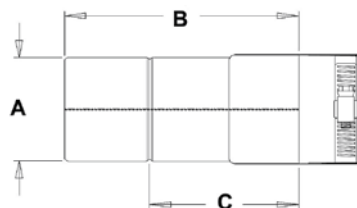
A	B	Part Number	Description
3	3	2SVEWMFAF03	Weil-McLain CGI Adaptor 3in

Weil-McLain Starter Tee Series 3/4 Adaptor



A	B	C	Part Number	Description
3	5.5	7	2SVEVSTF03	Weil-McLain Starter Tee 3in (Series 3 & 4)

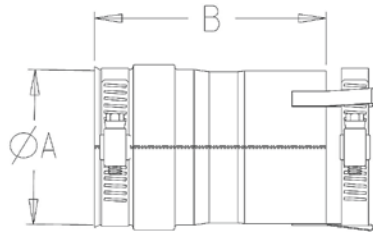
Safety Vent Adaptor



A	B	C	Part Number	Description
3	5.5	3.5	2SVSSVA03	Safety Vent Adaptor 3in Coax

Z-Vent Single Wall AL29-4C Special Gas Vent

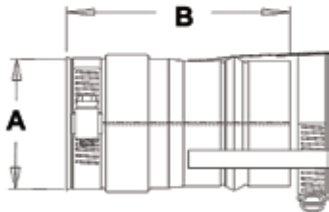
Buderus Adaptor



A	B	Part Number	Description
3	4.25	2SVB03	Z-Vent Buderus GA 124 244
4	4.25	2SVB04	Z-Vent Buderus GA 124 244

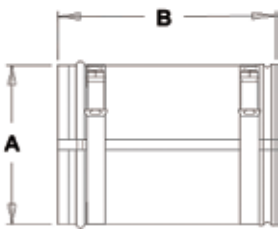
Burnham, Triangle Tube Adaptor

A	B	Part Number	Description
3	4	2SVSTA03	Burnham PV2/ Triangle Tube Adaptor



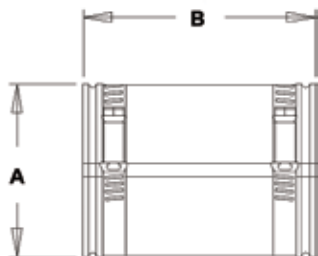
Ametek Fan Adaptor

A	B	Part Number	Description
3	4.75	2SVSACAF03	Ametek Fan Adaptor 3in



Locking Bands

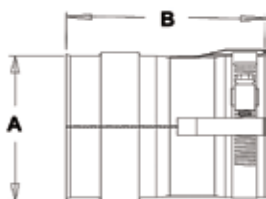
A	B	Part Number	Description
3	4	2SVSLBF03	Z-Vent Locking Band 3in
4	4	2SVSLBF04	Z-Vent Locking Band 4in



Z-Vent Single Wall AL29-4C Special Gas Vent

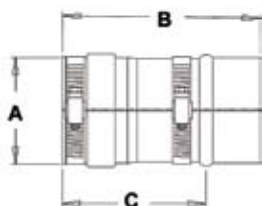


Modine Adaptor



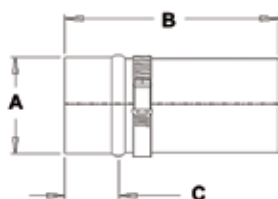
A	B	Part Number	Description
4	4	2SVMPE04	Z-Vent Modine PDP 125 Adaptor 4in

Slant Fin Victory, Concept, VSPH Adaptor



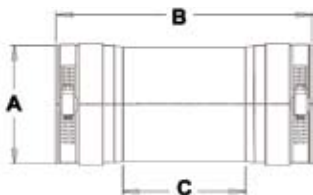
A	B	C	Part Number	Description
3	5.5	4	2SVSSLA2	Slantfin Victory, Concept, VSPH Adaptor

Slant Fin Termination Adaptor



A	B	C	Part Number	Description
3	6	1.5	2SVSSLA1	Slantfin Termination Adaptor

Smith/Hydrotherm Adaptor



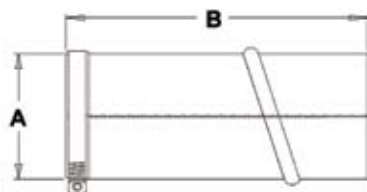
A	B	C	Part Number	Description
4	18	4	2SVESHA04	4in Smith/Hydrotherm Adaptor

Z-Vent Single Wall AL29-4C Special Gas Vent



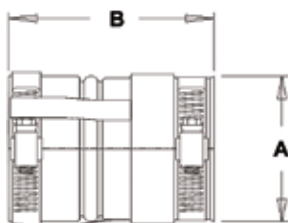
Sta-Rite Adaptor

A	B	Part Number	Description
4	8.25	4STPHA04	Sta-Rite Connector



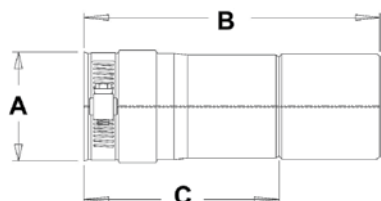
Utica Adaptor

A	B	Part Number	Description
3	3.75	2SVSUBAF03	Utica Boiler Adaptor 3in
4	3.75	2SVSUBAF04	Utica Boiler Adaptor 4in



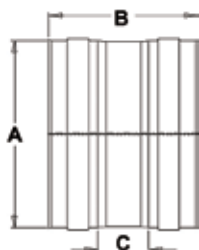
Viessmann Vitoden Adaptor

A	B	C	Part Number	Description
3	6	4	2SVSVB03	Adaptor Vitoden 3in
4	6	4	2SVSVB04	Adaptor Vitoden 4in



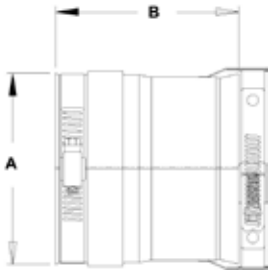
Viessmann Vitogas Adaptor

A	B	C	Part Number	Description
8	6	2	2SVSA08	8in Appliance Adaptor



Z-Vent Single Wall AL29-4C Special Gas Vent

Bosch Adaptor



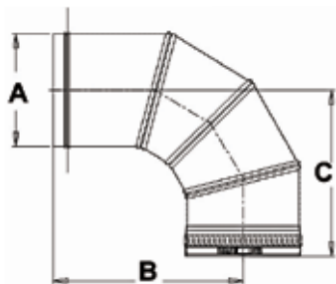
A	B	Part Number	Description
4	4	2SVFX04	Bosch 125 FX Adaptor 4in

Noritz Adaptor

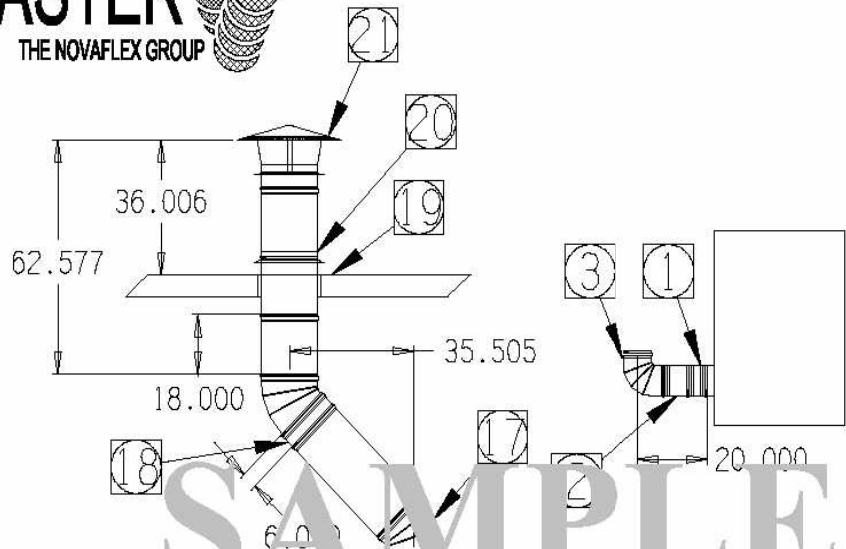


A	B	Part Number	Description
4	6	2SVWA03	Z-Vent Adaptor Noritz 3in
4	6	2SVWA04	Z-Vent Adaptor Noritz 4in
4	6	2SVWA05	Z-Vent Adaptor Noritz 5in

Adaptor Aerco

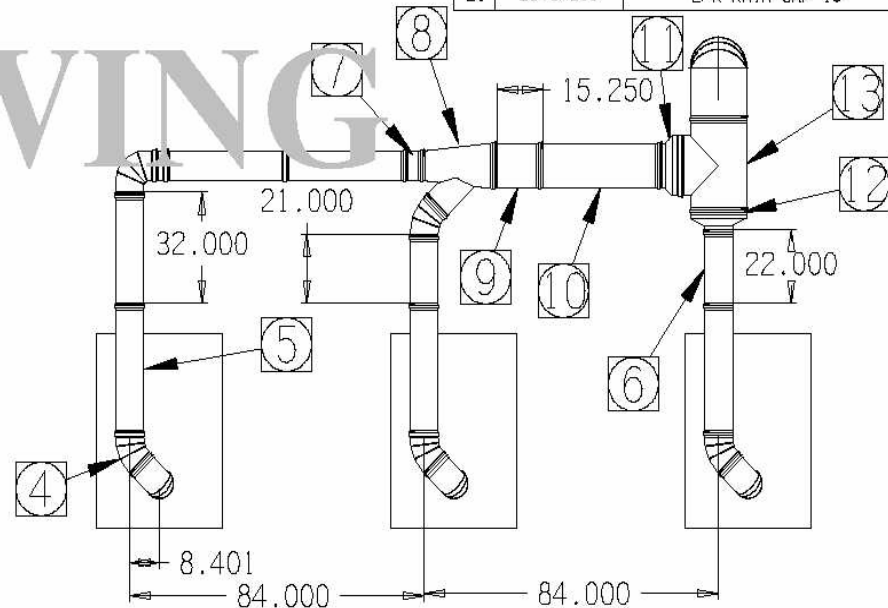
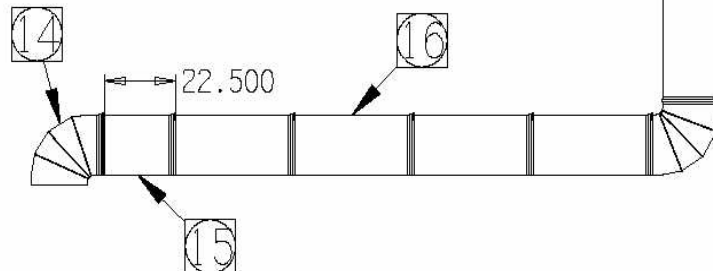


A	B	C	Part Number	Description
8	13.5	11.75	2SVAER0890	Adaptor Aerco 8 X 90



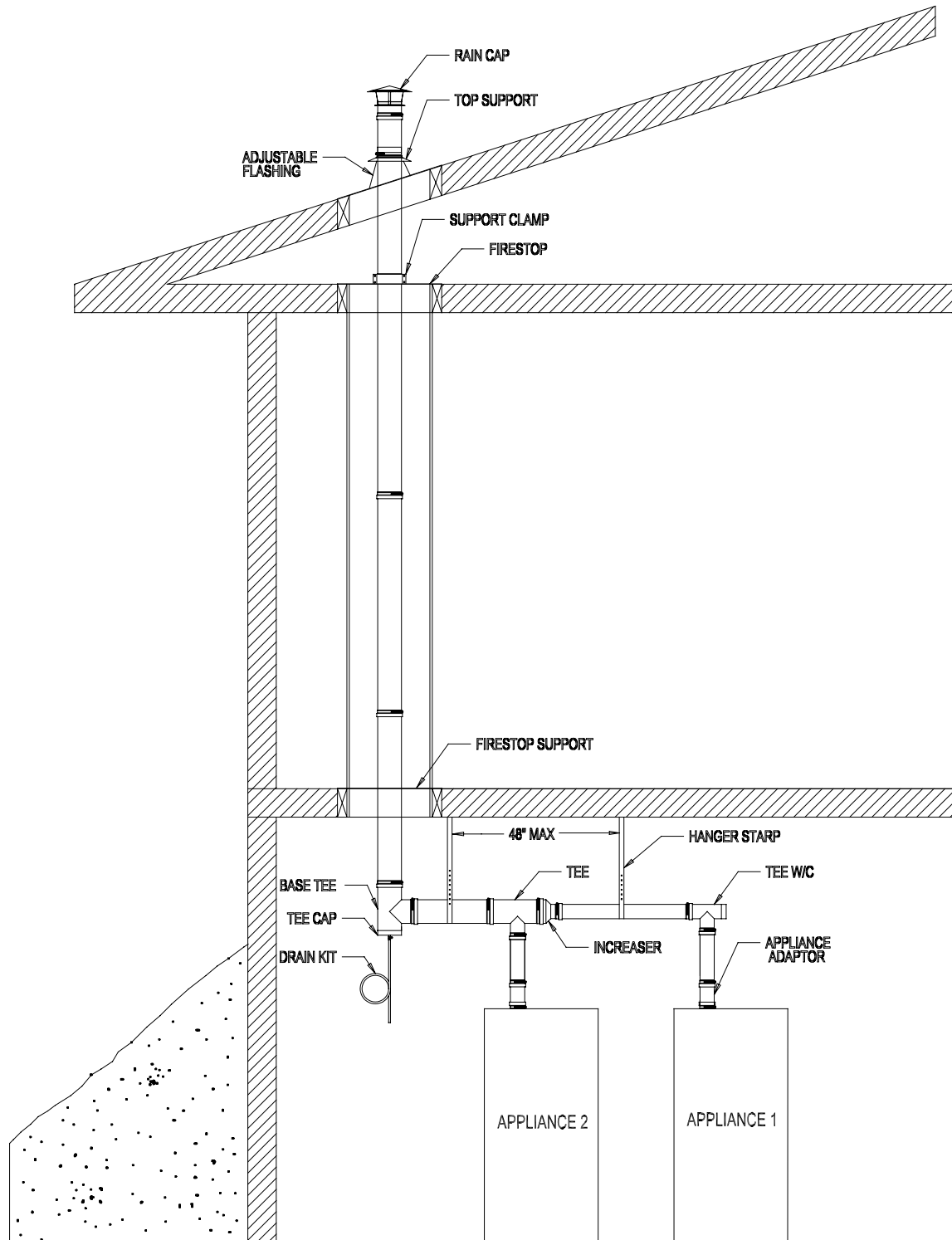
	PART ID	DESCRIPTION	QTY
1	2SVSA08	APPLIANCE ADAPTOR 8"	3
2	2SVEP0801	PIPE 8" X 12"	3
3	2SVEE0890	ELBOW 8" X 90°	4
4	2SVEE0845	ELBOW 8" X 45°	4
5	2SVDP0803	DW PIPE 8" X 36"	6
6	2SVEP0802	PIPE 8" X 24"	2
7	2SVEP08.5	PIPE 8" X 6"	1
8	2SVS1L120808	Z-VENT 45° TEE 8" TO 12"	1
9	2SVEP1201.5	ZV PIPE 12" X 18"	1
10	2SVEP1203	ZV PIPE 12" X 36"	1
11	2SVS11216	ZV INCREASER 12 TO 16	1
12	2SVS10816	ZV INCREASER 8 TO 16	1
13	2SVST16	ZV TEE 16"	1
14	2SVEE1690	16" X 90° ELBOW	2
15	2SVEP1602	PIPE 16 X 24"	2
16	2SVEP1603	PIPE 16 X 36"	16
17	2SVEE1645	ELBOW 16" X 45°	2
18	2SVEP1601	PIPE 16" X 12"	1
19	2SVSF16	FLASHING FLAT 16"	1
20	2SVSLS16	STORM DOLLAR 16"	1
21	2SVSRC16	L/R RAIN CAP 16"	1

APPROVED BY:.....
SIGNATURE:.....



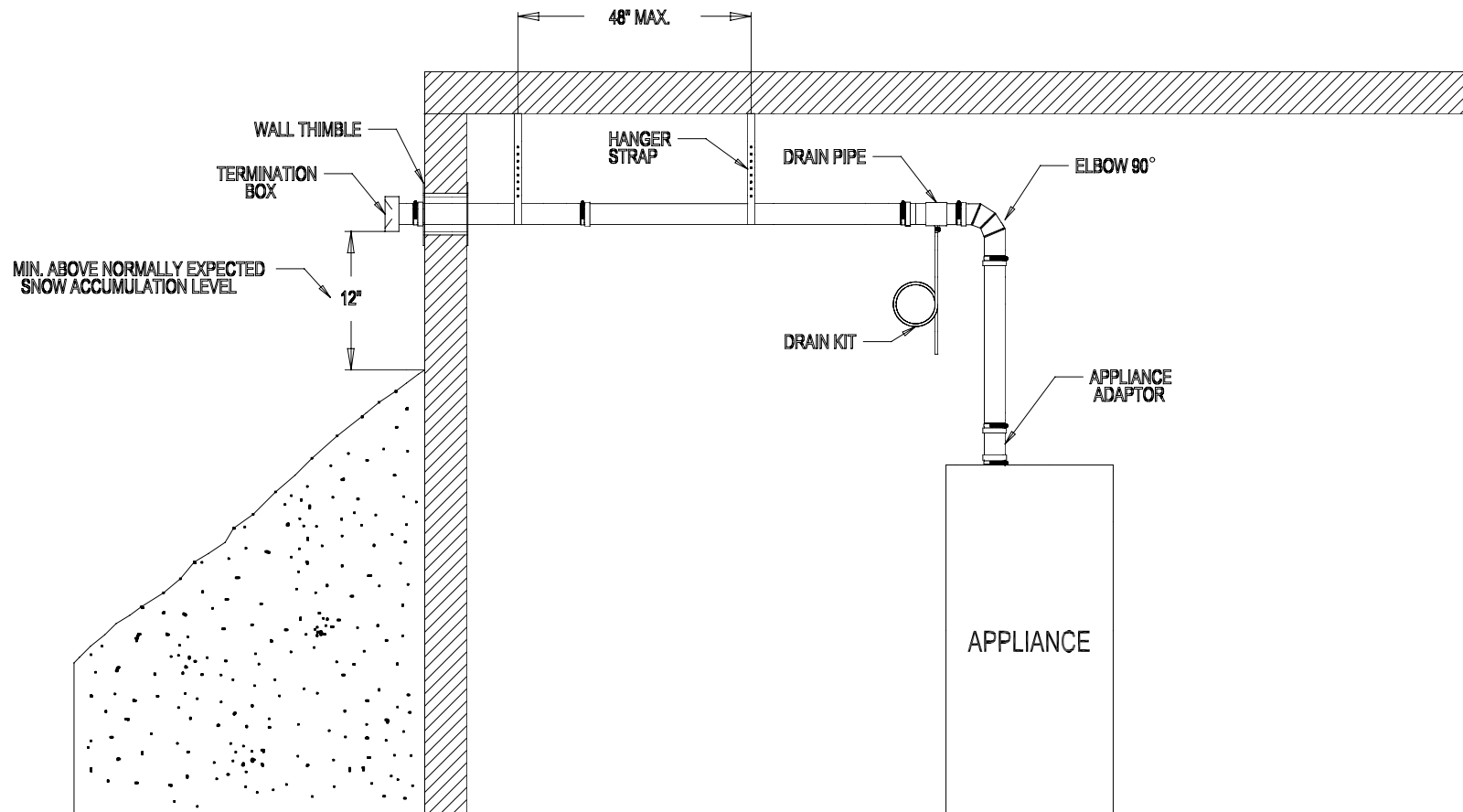
Z-VENT MODEL SVE AL294-C SPECIAL GAS VENT

UL 1738 LISTED CATEGORY II, III, IV



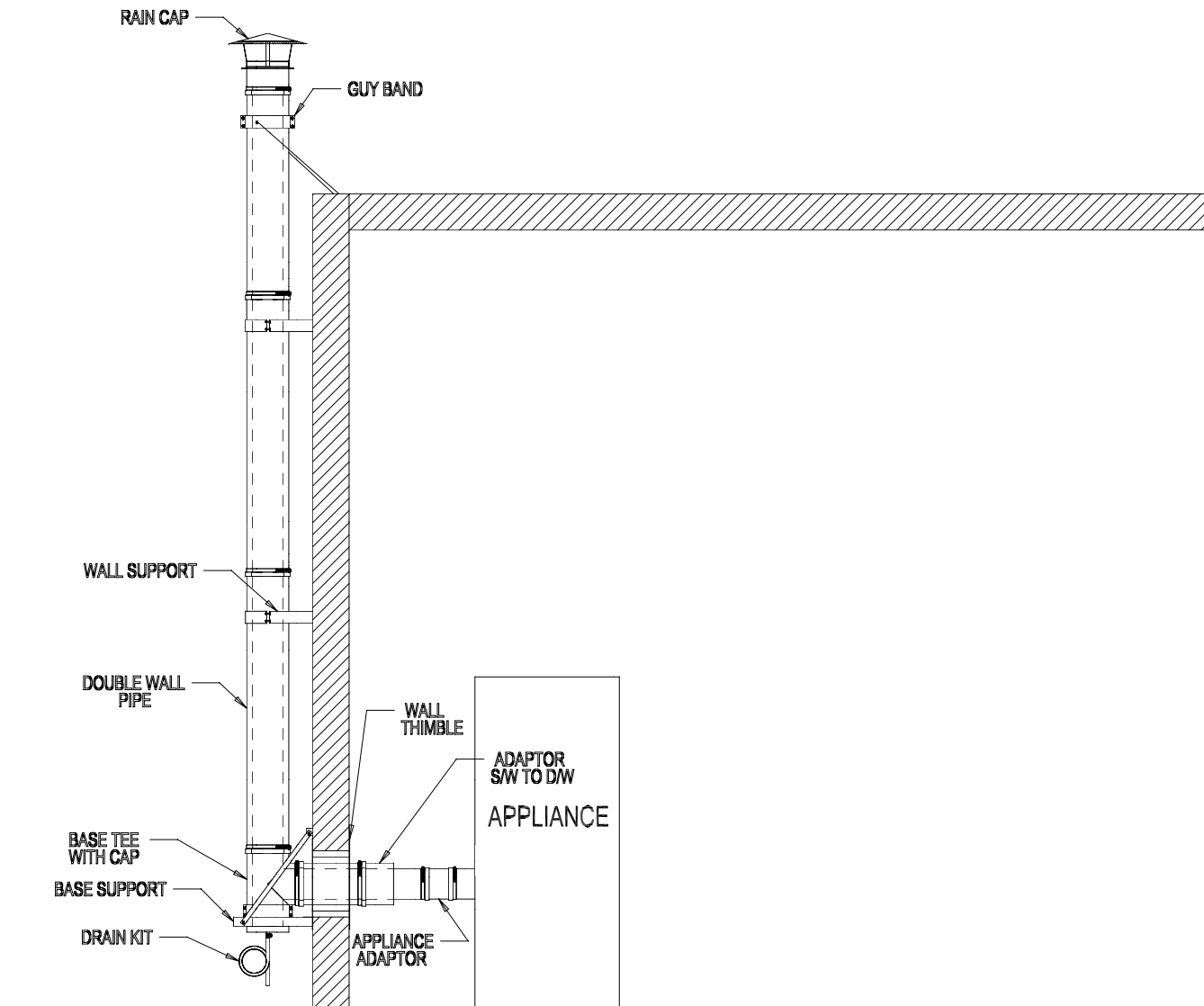
Z-VENT MODEL SVE AL294-C SPECIAL GAS VENT

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Z-VENT MODEL SVE AL294-C SPECIAL GAS VENT

UL 1738 LISTED CATEGORY II, III, IV



Z-VENT

Commercial / Industrial

MODEL SVE SERIES IV

INSTALLATION AND MAINTENANCE **INSTRUCTIONS**

**3"- 12" SINGLE AND DOUBLE WALL
SPECIAL STAINLESS STEEL VENTING SYSTEM
FOR GAS BURNING APPLIANCES
CATEGORY II, III, & IV**



**TESTED AND LISTED BY
UNDERWRITERS LABORATORIES INC.
UL 1738 & BH636**

Note the following before installation of Z-Vent

- * Examine all components for possible shipping damage prior to installation. *
- * The **Z-Vent** system must be free to expand and contract. Pipe must be properly supported. *
- * Proper joint assembly is essential for a safe installation. Follow these instructions exactly as written. Check severeness of joints upon completion of assembly. *
- * 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. *

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ETOBICOKE, ONTARIO
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Z-FLEX US, INC.
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03110-691
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Visit our web site at www.z-flex.com

SPECIAL STAINLESS STEEL VENTING

For use with Category I, II, III, & IV gas burning appliances

Contact Local Building or Fire Officials about Restrictions and Installation Inspections in your area as well as National codes: USA - National Fuel Gas Code ANSI-Z223.1/NFPA 54, CANADA -CAN\CGA-B149.1 or .2 Fuel Burning Installation Code
Please refer to appliance manufacturers' instructions to determine proper sizing and connection of venting system to appliance, including maximum horizontal length, maximum height, and installation clearances (air spaces). The proper operation of the vent system and appliance requires parts specified by Z-FLEX with no deletions or substitutions.

Z-FLEX recommends that an experienced professional who works with venting systems on a regular basis perform the installation. These instructions are intended as a guide to assist a professional installer.

When the **Z-VENT** system is installed, the following should be observed:

1. A venting system that exits the structure through a sidewall or the like, shall terminate not less than 12 inches (254 mm) above the ground (see illustration # 2, page 4).
2. The termination of a system shall be located above the snow line in geographical areas where snow accumulates. The termination area should be kept clear of snow and ice at all times.
3. The vent shall not terminate less than 7 ft. (2.13 m) above a paved sidewalk or driveway.
4. The termination shall be 6 ft. (1.8 m) or more from the combustion air intake of any appliance.
5. The system shall terminate more than 3 ft. (.91 m) from any other building opening, gas utility meter, service regulator or the like.
6. Exterior mounted venting systems should be enclosed below the roof line with a chase to limit condensation and protect against mechanical failure.

NOTES:

- A. The Z-FLEX SPECIAL STAINLESS VENT SYSTEM is for use only with appliances having a positive vent pressure of 8" of water column or less.
- B. Except for installation in one and two family dwellings, a venting system that extends through any zone above that on 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
- C. Do not place any type of insulation in any required air spaces surrounding the venting system.
- D. A termination must be used on all installations to assure proper operation and to prevent debris from entering the venting system.
- E. Vertical runs must use firestops as lateral support at each ceiling level and at least one support collar at the base of the vertical run. For vertical runs exceeding 16' (4.88 m), a support collar is required at 16' (4.88 m) intervals. Horizontal runs require a loose fitting metal strap or similar support at each elbow.

Model SVEIV	
PRODUCT NO.	DESCRIPTION
2SVEPWC	Model SVEIV Single Wall Pipe
2SVSPA	Model SVEIV Single Wall Adj. Pipe
2SVST	Model SVEIV Single Wall Tee
2SVEE	Model SVEIV Single Wall Elbow 90
2SVSRCX	Model SVEIV Single Wall Rain Cap W/ Wind Band
2SVSRC	Model SVEIV Single Wall Rain Cap
2SVDP	Model SVEIV Double Wall Pipe
2SVDA	Model SVEIV Double Wall Adj. Pipe
2SVDE	Model SVEIV Double Wall Elbow 90
2SVDT	Model SVEIV Double Wall Tee
2SVDRC	Model SVEIV Double Wall Rain Cap W/ Wind Band
2SVDRC	Model SVEIV Double Wall Rain Cap
2SVSTCD	Model SVEIV Tee Cap W/Drain
2SVSTC	Model SVEIV End Cap
2SVSFSS	Model SVEIV Single Wall Firestop/ Support
2SV_F	Model SVEIV Tall Cone Flashing
2SV_LS	Model SVEIV Support/Storm Collar
2SV_WS	Model SVEIV Wall Support
2SV_GB	Model SVEIV Guy Band

JOINT PROCEDURE

(see illustration #1)

The female end of each Z-Vent Model SVE IV component incorporates a silicone sealing gasket. Examine all components to insure that gasket integrity has remained during shipping.

1. Align pipes and push them together as far as they will go for single wall or until lock engages for double wall.

NOTE: Some flue collars may require the use of high temperature silicone sealant to make a positive pressure gas tight seal.

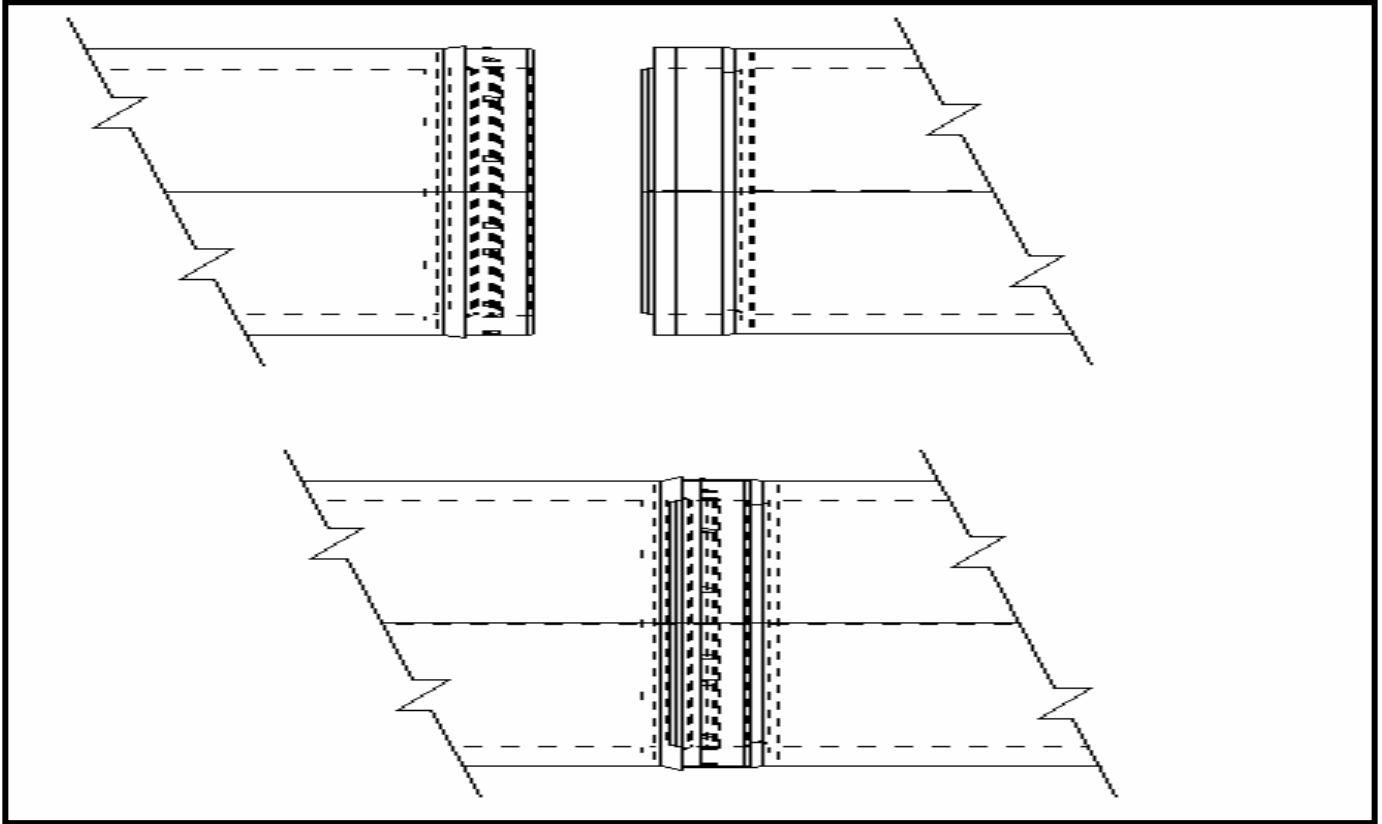


Illustration #1

CLEARANCE TO COMBUSTIBLES

SYSTEM	SYSTEM OPERATING TEMPERATURE	CLEARANCE ENCLOSED VERTICAL	CLEARANCE UNENCLOSED	
			HORIZONTAL	VERTICAL
SINGLE WALL	550°F (288°C)	6" (150 mm)	Pipe 3" (76 mm)	3" (152 mm)
	480 F (249 C)	4" (100 MM)	Thimble-6"(25 mm)	N/A
	300 F (149 C)	4" (100 MM)	1" (25 MM)	1" (25 MM)
DOUBLE WALL	550°F (288°C)	6" (150 mm)	Pipe-2" (51 mm)	2" (51 mm)
	480 F (249 C)	4" (100 MM)	Thimble-3" (76 MM)	N/A
	300 F (149 C)	4" (100 MM)	1" (25 MM)	1" (25 MM)

SIDE WALL VENTING INSTALLATION

(see illustration #2 below)

1. The pipe may be mortared in directly without using a wall thimble, if the wall is non-combustible. Penetrating a combustible wall requires the use of a wall thimble. Install wall thimble into wall, observing the aforementioned rules and/or local building codes. Select the point of wall penetration where the minimum $1/4"$ per foot of slope (6.4 mm per 305 mm) can be maintained. A framed opening is required to insert the thimble halves. The thimble is adjustable for different wall thicknesses. The termination cap is to be installed no less than $5-1/2 \text{ in.}$ from the combustible exterior sidewall. Caulk around outside edge of plates as necessary and fasten to wall using suitable screws or nails. The vent pipe must be sealed at wall thimble as per code regarding continuous vapor barrier.
2. The system can now be assembled through the thimble (attach the termination first - note "UP" arrow) and then back to the appliance as per illustration using **JOINT PROCEDURE** as described on page #3. A gear clamp must be installed around the pipe on the inside of wall to trap pipe in position so that the system cannot be moved in or out of wall. This applies to both combustible and non-combustible walls
3. The system must be supported along its horizontal length at all elbow locations and every forty-eight inches or less using straps around pipes maintaining clearance to combustibles as per table on page 3.
4. The horizontal distance of the system from the appliance flue collar to the outside of the Horizontal termination cannot be greater than that specified in the manufacturer's installation instructions and not be less than four (4) feet unless the vent is through a non-combustible wall.

NOTE:

Any horizontally installed portion of a venting system shall have a slope (upwards for Category II, III, or IV appliances or downwards for Category III or IV appliances) not less than $1/4"$ (6.4 mm) every 12 inches (305 mm) to prevent collection of condensate at any location in the assembly. Fasteners must not penetrate the components of the system either when joining pipes and fittings or using support straps.

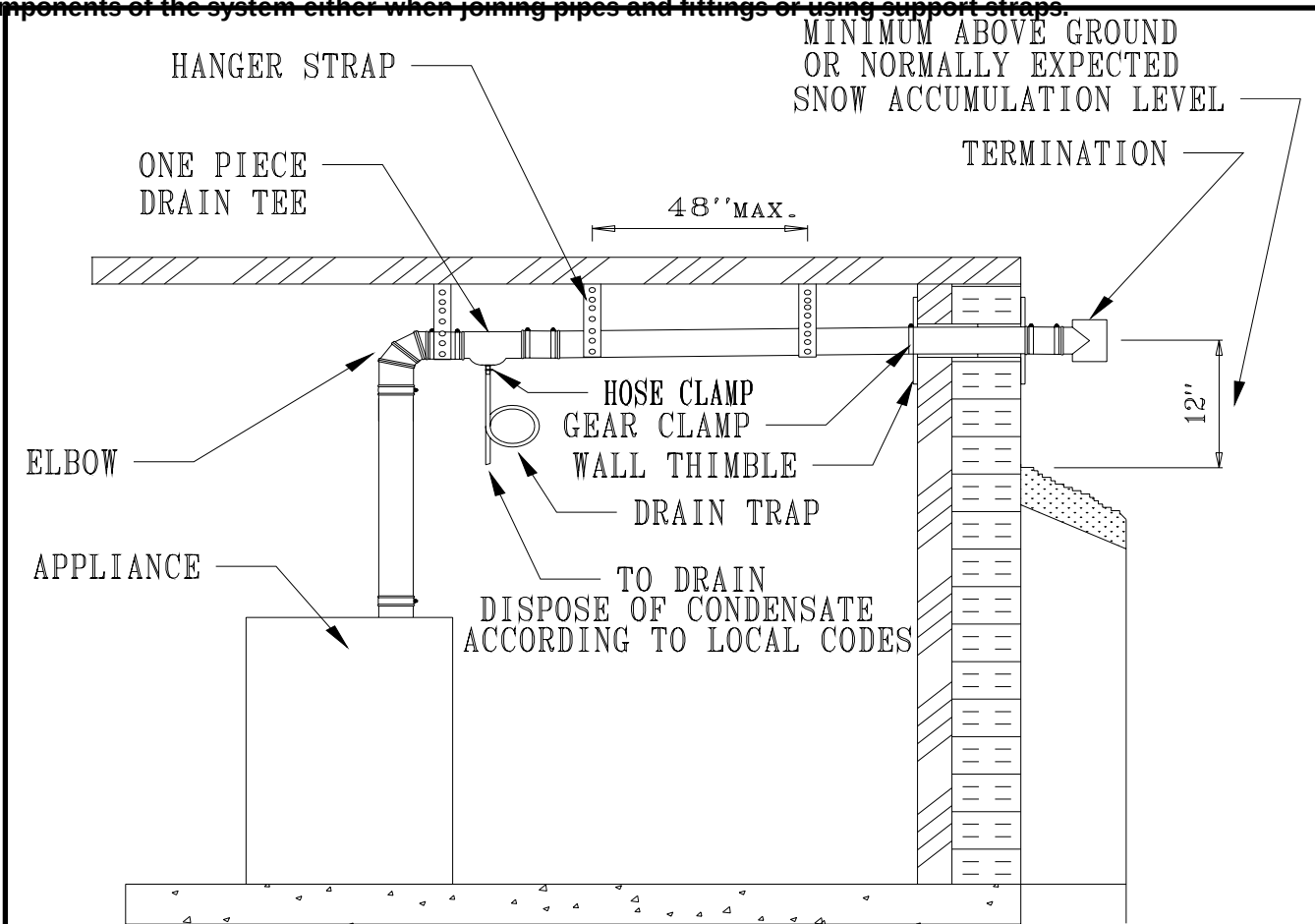


ILLUSTRATION #2

VERTICAL VENTING

(see illustrations #3 & 4)

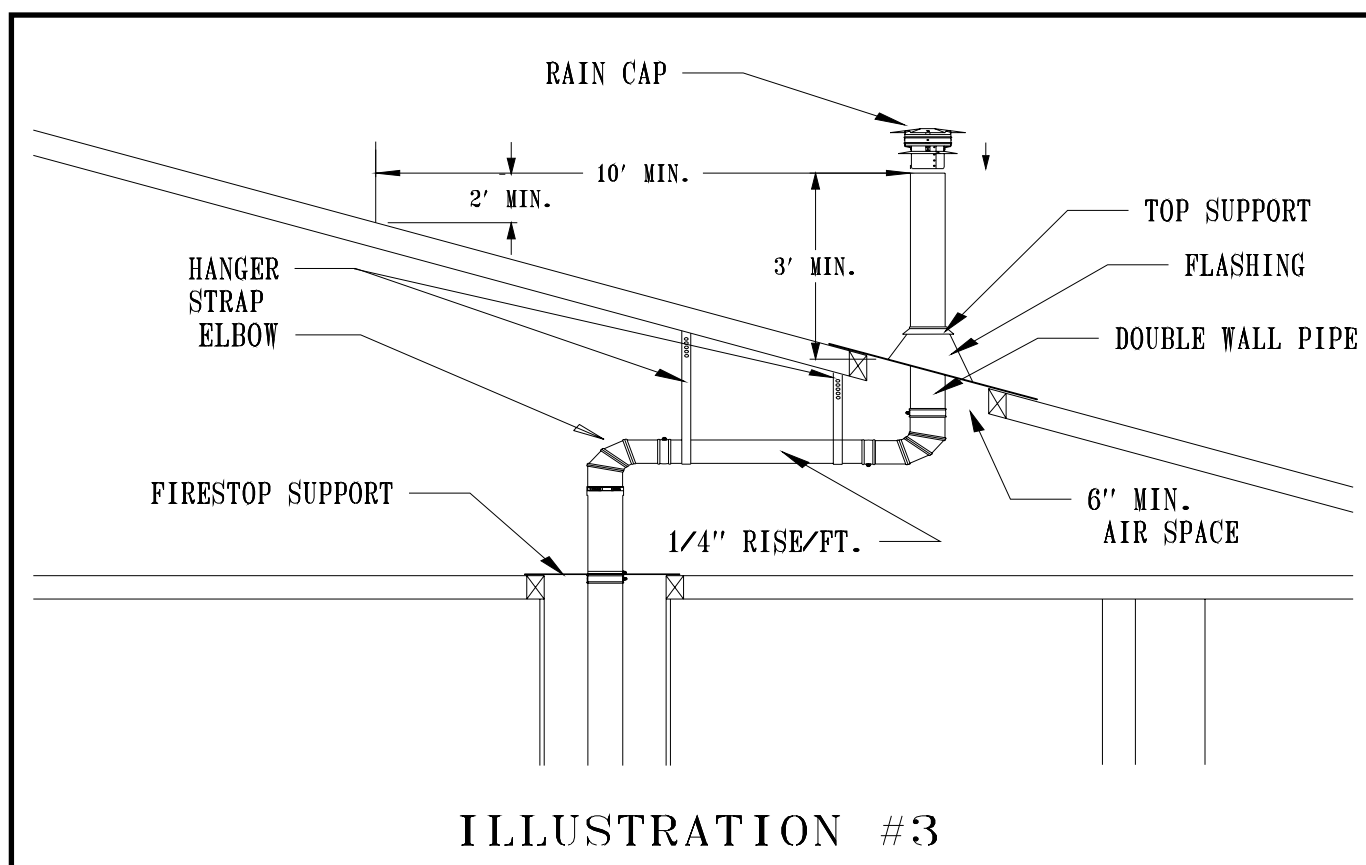
NOTE: The vent termination above the roof line shall consist of a continuous section of vent pipe only (without any joints) and must be at least 3 ft. (1 m) to a maximum of 6ft. above the roof line and 2 ft. (.61 m) higher than any part of a structure within 10 ft. (3.1 m). The total vertical distance of the vent system from appliance flue collar to the rain cap termination and the maximum length of offsets shall not exceed that specified in the appliance manufacturer's installation instructions. No continuous vertical run shall be longer than sixty feet (18.3 m). All horizontal sections must observe the rules for **HORIZONTAL VENTING**.

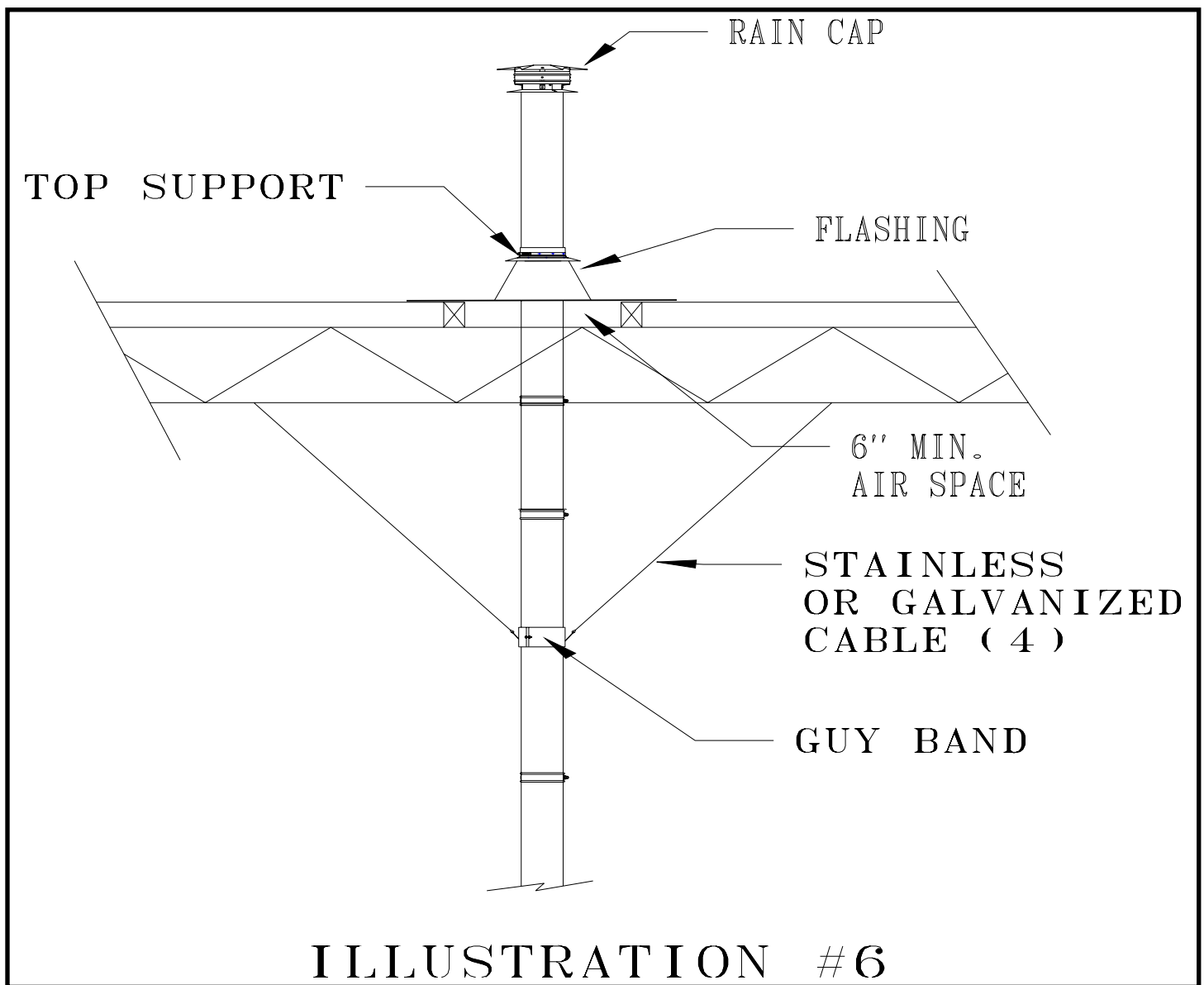
NOTE: Double wall pipe must be used through combustible roofs.

1. Prior to beginning the installation, loosely assemble all parts required to make sure all parts are present.
2. Locate position for venting system and proceed to cut holes for firestop support and firestop spacers. All vertical installations require the use of a support. Frame the opening of the floor using lumber, which is dimensionally consistent with the structural members. Insert the support from beneath the framed opening and secure with nails or screws as required.
3. Refer to **JOINT PROCEDURE** (*illustration #1*) before assembling system.
4. Install system joining pipe as required up through roof (*illustration page 7*). Tighten gear clamp on firestop support to hold vent system. **NOTE:** A firestop must be provided when a vent passes through a combustible floor or ceiling. The opening must be framed for the support since the support also serves as a firestop.
5. The roof flashing can now be installed. Where the vent passes through the roof a flashing must be used to maintain the required clearances and to protect from the elements. The framed opening must be large enough to provide the necessary clearances to combustibles, taking into account the slope of the roof. The flashing can be used on slopes from flat to 6/12 pitch. Install the flashing while holding the pipe centered in the opening. Fasten the flashing to the roof under the roofing material upslope from the pipe and above the roofing material below the pipe. Seal as required using high temperature silicone.
6. Install Top Support around pipe and against flashing collar. (*illustrations #3,4,5,6*)
7. Attach rain cap using. **JOINT PROCEDURE** (*illustration #1*)
8. The vertical section is connected by an elbow joined to the horizontal run and then through a drain tee (*see page 4 for details*) to the appliance. Elbows are joined to pipe using the **JOINT PROCEDURE** (*illustration #1*).

NOTE: If there is no solid anchor point in the system below the roof (ie Firestop Support etc.) then a Z-Vent Guy Band must be used below the roof as follows. (*see illustration #6*)

- a. Attach the Guy Band at any point above an elbow or tee in the vertical section within 20 feet of the roof.
- b. Fasten stainless steel or galvanized cable with a minimum capacity of 500 lbs. to each of the four anchor holes.
- c. Anchor the cables to a rigid building member using an appropriate fastening method.



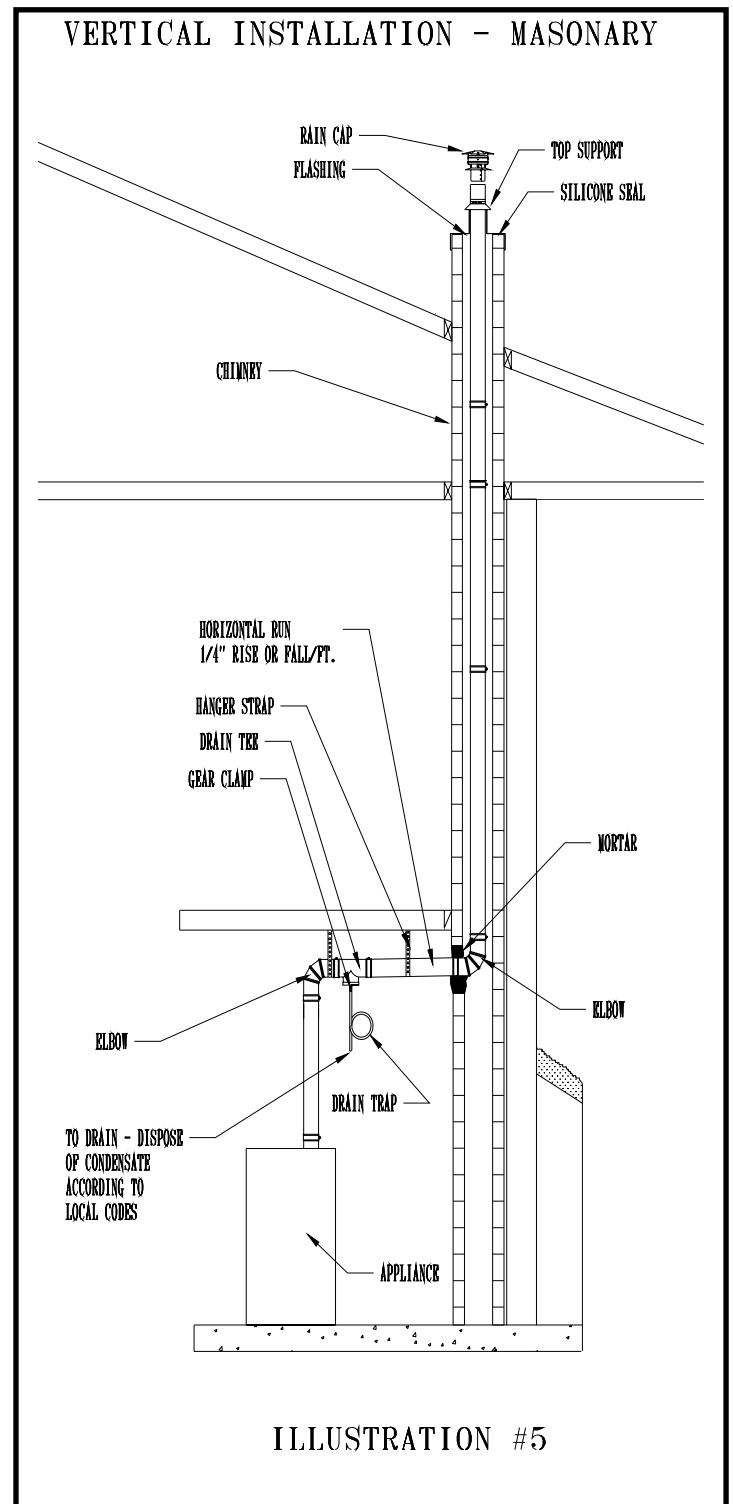
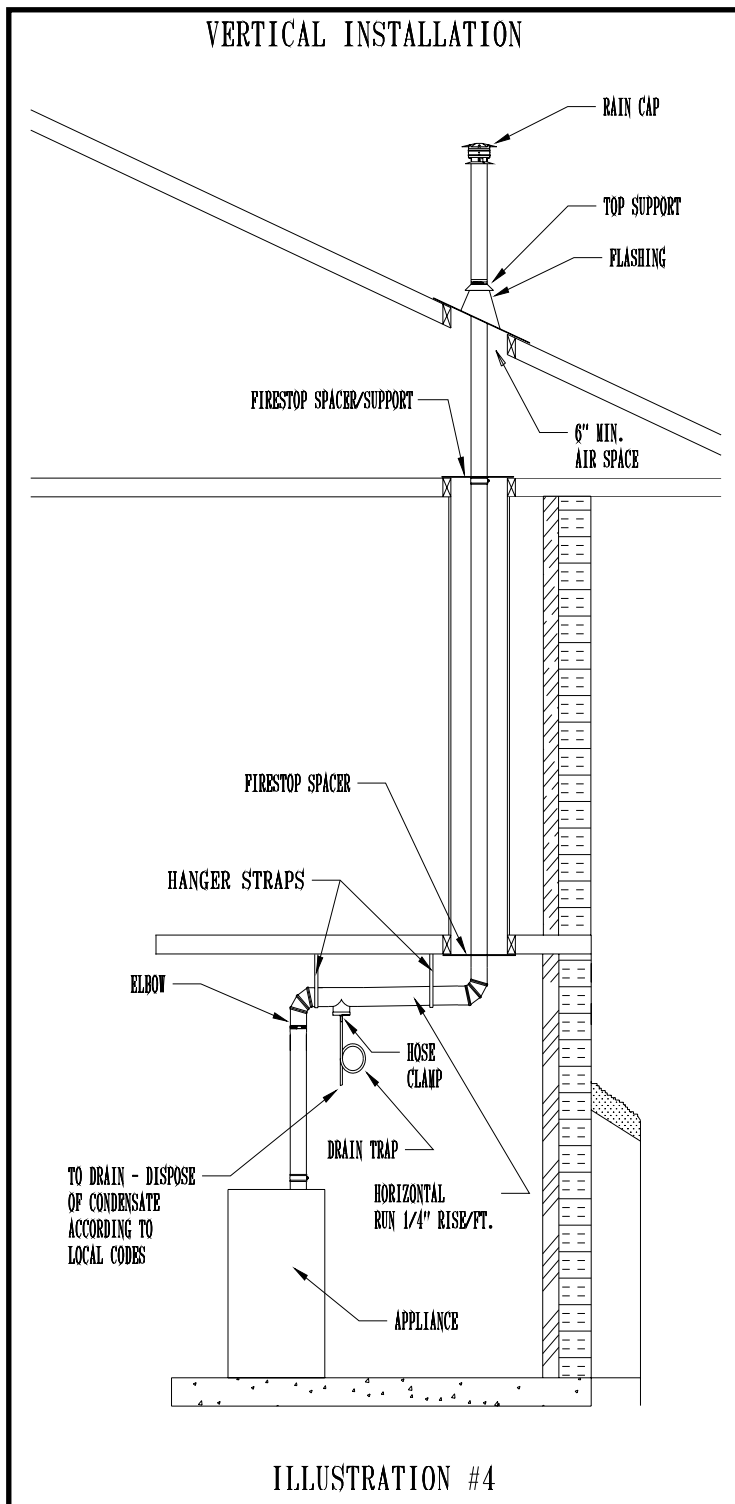


EXISTING MASONRY CHIMNEY

(see illustration #5)

NOTE: A masonry chimney flue may be used to route **Z-VENT** if no other appliance vents directly into the same flue without a liner. Prior to beginning the installation, be sure that the existing chimney meets all national and local building codes. The chimney must be cleaned, removing all soot, debris and creosote before installing **Z-VENT**.

1. Using the **JOINT PROCEDURE**, *(illustration #1)* join pipe lengths as they are lowered down the chimney until bottom end lines up with opening in chimney. (A rope may be used to facilitate lowering of pipe).
2. Install flashing over last pipe length and attach top support to pipe. Leave 6" (150 mm) of pipe protruding from flashing so that rain cap may be installed and to allow for any adjustment to line up base tee properly.
3. Fasten flashing to chimney top using caulking and/or screws. If the top clay tile is still in place, the corners of the flashing must be notched and flashing plate formed down around clay tile.
4. The rain cap may now be installed using the **JOINT PROCEDURE** *(illustration #1)*.
5. Where required a drain tee should be installed to a pipe as per **JOINT PROCEDURE** *(illustration #1)*.
6. The remainder of the horizontal installation to the appliance can be done the same as for side wall venting on page 4 observing rules for **HORIZONTAL VENTING**.
7. Final adjustment may be made to the top support if necessary.



APPLIANCE CONNECTION

Refer to the appliance manufacturer's installation manual for proper method of joining **Z-VENT** to the appliance collar. An appliance adapter to suit specific requirements may be obtained from **Z-FLEX**.

IMPORTANT NOTICE

When any of the previous installation procedures are completed, be sure to go over the entire system to make sure all joints are secure and sealed correctly. The seams and joints must be checked for tightness prior to using the venting system.

A qualified inspector must check the entire system at least once annually following initial installation to maintain the **Z-FLEX** warranty.

The installation must conform to the requirements of the appliance manufacturers' instructions, The National Fuel Gas Code and local codes and regulations.

Z-FLEX® LIMITED LIFETIME WARRANTY

Z-FLEX® ("Seller") extends the following LIMITED WARRANTY for Z-VENT (the "Z-Vent"):

Seller warrants that at the time of purchase, the Z-Vent will be free of manufacturer's defects in material and/or workmanship. This warranty shall extend to the original purchaser of the Z-Vent or, if purchased by a contractor, to the end user. This warranty is valid for a period of fifteen (15) years from the date of purchase, provided that the Z-Vent has been installed according to Z-Flex® installation instructions. Deviating from the installation and use instructions included with the Z-Vent will void the warranty.

Under this Limited Warranty, Seller's sole responsibility and liability shall be to replace the Z-Vent and/or accessories, if found by Seller to be defective according to the terms of the warranty, and shall not include replacement installation or other costs.

IMPORTANT: The Z-Vent Model SVEIV is designed for use with Category II, III and IV furnace and boiler venting and should not be used with any other type of furnace and boiler venting. Use of the Z-Vent with any other type of furnace and boiler venting other than those recommended by Seller for use with its Z-Vent will void the warranty.

WARNING: CONDENSATION WITH HIGH ACID CONTENT MAY BE PRODUCED DUE TO UNFORESEEN CONDITIONS. YOUR HEATING APPLIANCE AND VENTING SYSTEM SHOULD BE INSPECTED BY A LICENSED CONTRACTOR ON AN ANNUAL BASIS FOR POSSIBLE SIGNS OF DETERIORATION DUE TO RUSTING OR PIN HOLES. CONDENSATION WITH HIGH ACID CONTENT MAY CAUSE LEAKAGE OF HARMFUL GASES WHICH CAN CAUSE NAUSEA, FAINTING OR DEATH. IF DETERIORATION IS DETECTED CEASE USE OF HEATING SYSTEM AND CALL FURNACE/BOILER INSTALLER FOR REMEDIAL ACTION.

To activate the warranty, the end-user must complete and return the Z-Flex® Warranty Registration Card within ninety (90) days of installation of the Z-Vent. Upon written notice of any defects, Z-Flex® reserves the right to examine or establish reasonable proof of defective material or workmanship justifying replacement.

NO OTHER EXPRESS WARRANTY HAS BEEN MADE OR WILL BE MADE ON BEHALF OF SELLER WITH RESPECT TO THE Z-VENT OR THE INSTALLATION OR REPLACEMENT OF THE Z-VENT. SELLER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CON-SEQUENTIAL DAMAGES.

As some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you.

IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IMPOSED ON THIS SALE UNDER STATE LAW, ARE LIMITED TO THE PERIOD DURING WHICH THIS WARRANTY IS IN EFFECT. AS SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON THE LENGTH OF AN IMPLIED WARRANTY, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Claims under this Warranty must be made within the warranty period in writing and directed to: In **the USA**; Warranty Claims, Z-Flex®(US) Inc., 20 Commerce Park North, Bedford, New Hampshire 03110, (603) 669-5136 or (800) 645-5600. In **Canada**; Warranty Claims, Z-Flex® Inc., 452 Attwell Drive, Etobicoke, Ontario, M9W 5C3, (416) 679-0045.

This Warranty gives you specific legal rights, and you may also have other rights that vary in different States and Provinces.

 _____

WARRANTY REGISTRATION CARD: Z-FLEX®

For this warranty to be effective, this card must be completed upon purchase of the covered Z-Vent and returned to Z-Flex® within ninety (90) days of installation of the Z-Vent.

Original end-user's name: _____

Address of premises in which the Z-Vent is installed: _____

Z-Vent purchased from: _____

Date of Installation: _____

Type of Heating System into which Z-Vent installed: _____

I understand and agree to the Warranty as stated: _____

Signature

Date

Flexmaster Canada Limited
Model SVE IV Instructions Ver. 1.2 Nov. 19,2002