



DESIGN MANUAL

• **CORR/GUARD® II**

**Special Gas Vent
6" - 36" Diameters**

June 2013 Edition

METAL-FAB

CORR/GUARD® II SPECIAL GAS VENT

Advanced design that cuts cost and time on the job!

COMPLETE VENT LINE

- Including straight pipe lengths, adapters, elbows, tees, drain sections, support bands, flashing, caps and more. Single wall & double wall.
- Available in 6" - 36" diameter, including new 7" and 9" diameters.

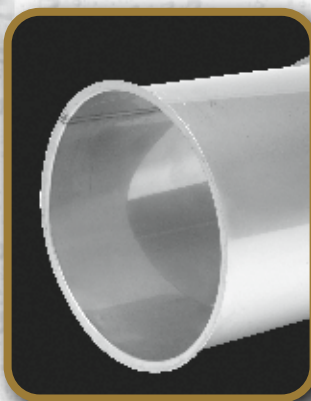
AL29-4C STAINLESS STEEL FLUE

- Exceeds corrosion resistance requirements in UL1738 - Standard for Venting Systems for Gas-Burning Appliances, Categories II, III, and IV.

SELECTION OF CASINGS

- Choose the most cost effective materials for the environment.
 - Aluminized Steel
 - 430 Stainless Steel
 - 304 Stainless Steel
 - 316 Stainless Steel

LIMITED LIFETIME WARRANTY



Flanged connections are precision formed to fit perfectly at each connection.



All-welded construction provides leak-free performance and clean appearance.



Vee Band connectors are engineered for exact fit around flanges, providing a strong, liquid-tight connection.

Also available: Corr/Guard® in 3" - 5" diameter

- Leak-proof "gold seal" gasket
- One-step connection and snap-lock
- Single Wall and Double Wall

See Corr/Guard 3"-5" Brochure L2158 available at www.metal-fabinc.com

Appliance Adapters

See Corr/Guard Appliance Adapters Brochure L2159

Available at:

www.metal-fabcommercial.com

TABLE OF CONTENTS

GENERAL INFORMATION	3
CODES & STANDARDS	3
PRODUCT INFORMATION	4
APPLICATION INFORMATION	5
COMPONENTS	6 - 18
DIMENSIONAL DATA	18 - 19
WARRANTY	19

GENERAL INFORMATION

Pertinent information is consolidated in this publication to assist you with application information, codes and standards, dimensional information, support requirements and other data of special interest. It is our goal to enable you to select the proper product to meet the requirements of your project confidently and efficiently.

For additional information you may contact us via:

Web Site: www.metal-fabcommercial.com
Telephone: 316-943-2351
Toll Free Phone: 800-835-2830
Fax: 316-771-4168
E-mail: info@metal-fabcommercial.com

Complete information for proper and safe installations is found in the Metal-Fab Installation Instructions. (Literature No. L2591)

This design manual contains data to assist in the proper selection, design, and layout of venting systems using Metal-Fab models:

FCG – Double Wall Special Gas Vent

FCGSW – Single Wall Special Gas Vent

CODES AND STANDARDS

Corr/Guard is listed to UL 1738, Standard for Venting Systems for Gas-Burning Appliances, Categories II, III, IV and ULC S636. These requirements cover venting systems intended for venting Category II, III, and IV gas-burning appliances as defined by the Standard for Gas-Fired Central Furnaces (except Direct Vent Central Furnaces), ANSI Z21.47 and the National Fuel Gas Code, NFPA 54. Venting systems covered by these requirements are intended to be used with Category II, III, and IV appliances that have been installed in accordance with NFPA 54, the ICC International Mechanical Code, the IAPMO Uniform Mechanical Code, and local codes.

Corr/Guard vent material is AL29-4C® superferritic stainless steel. This vent is intended for use wherever appliance manufacturers specify superferritic stainless steel as the required vent material and, vent gas temperatures do not exceed those listed in the Metal-Fab Installation Instructions and the Application section of this manual.

New York City, NY MEA Approval No. 78-00-E

Venting system design may be limited by appliance performance. Consult appliance installation instructions to determine limitations such as maximum horizontal length, maximum vertical height, elbow and offset limitations, and number of appliances permitted in a common vent.



CORR/GUARD® II PRODUCT INFORMATION

Corr/Guard II 6" – 12" Diameters To determine metric dimensions: multiply inches X 25.4

DESCRIPTION	DOUBLE WALL	SINGLE WALL
Max Operating Temperature	550° F (288 C)	550° F (288 C)
Max Operating Pressure	6" w.g.	6" w.g.
Clearance to Combustibles ENCLOSED – VERTICAL @480°F (249 C)	1"	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles ENCLOSED – HORIZONTAL	Can Not Be Enclosed with Combustible Material	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C)	1"	2"
JOINT CONNECTION	FLANGED – P070 Sealant Required	FLANGED – P070 Sealant Required
Flue Material Thickness	AL29-4C 0.015"	AL29-4C 0.015"
Casing Materials	Std- Aluminized Steel 0.018" Opt – 430 Stainless Steel 0.015" Opt – 304 Stainless Steel 0.024" Opt – 316 Stainless Steel 0.024"	Not Applicable

Corr/Guard II 14" – 24" Diameters To determine metric dimensions: multiply inches X 25.4

DESCRIPTION	DOUBLE WALL	SINGLE WALL
Max Operating Temperature	550° F (288 C)	550° F (288 C)
Max Operating Pressure	6" w.g.	6" w.g.
Clearance to Combustibles ENCLOSED – VERTICAL @480°F (249 C)	1"	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles ENCLOSED – HORIZONTAL	Can Not Be Enclosed with Combustible Material	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C)	14" – 18" = 2" 20" – 24" = 3"	14" – 18" = 3" 20" – 24" = 4"
JOINT CONNECTION	FLANGED – P070 Sealant Required	FLANGED – P070 Sealant Required
Flue Material Thickness	AL29-4C 0.024	AL29-4C 0.024
Casing Materials	Std- Aluminized Steel Opt – 430 Stainless Steel Opt – 304 Stainless Steel Opt – 316 Stainless Steel 0.024"	Not Applicable
Thickness		

Corr/Guard II 26" – 36" Diameters To determine metric dimensions: multiply inches X 25.4

DESCRIPTION	DOUBLE WALL	SINGLE WALL
Max Operating Temperature	550° F (288 C)	550° F (288 C)
Max Operating Pressure	6" w.g.	6" w.g.
Clearance to Combustibles ENCLOSED – VERTICAL @480°F (249 C)	2"	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles ENCLOSED – HORIZONTAL	Can Not Be Enclosed with Combustible Material	Can Not Be Enclosed with Combustible Material
Clearance to Combustibles UNENCLOSED HORZ. or VERT. @ 550° F (288 C)	26" – 30" = 4" 32" – 36" = 5"	26" – 30" = 5" 32" – 36" = 6"
JOINT CONNECTION	FLANGED – P070 Sealant Required	FLANGED – P070 Sealant Required
Flue Material Thickness	AL29-4C 0.035	AL29-4C 0.035
Casing Materials	Std- Aluminized Steel Opt – 430 Stainless Steel Opt – 304 Stainless Steel Opt – 316 Stainless Steel 0.035"	Not Applicable
Thickness		

CORR/GUARD® II APPLICATION INFORMATION

DESIGN CONSIDERATIONS

When venting gas appliances always consult the appliance installation instructions. Horizontal runs, elbows, offsets, vertical height, may be limited by appliance performance specifications.

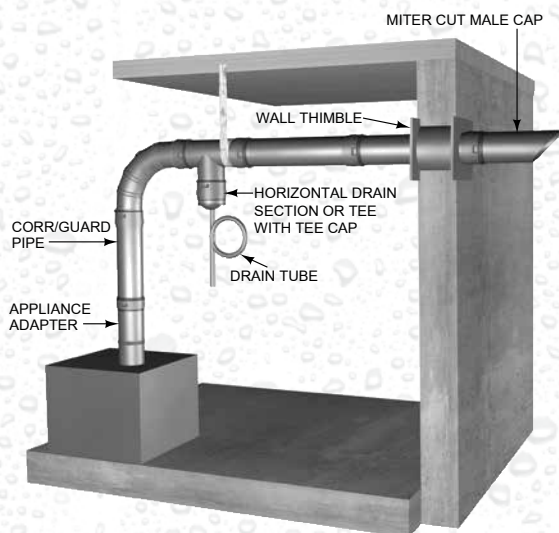
Horizontal runs must slope a minimum of $\frac{1}{4}$ " : 12" (6mm-305mm). Neutral or negative pressure systems must slope upward – away from the appliance. Positive pressure within the vent may slope upward or downward. Provide for condensate drainage where required.

Vertical runs must be properly supported. Supports are required above every offset to prevent vertical loading on elbows.

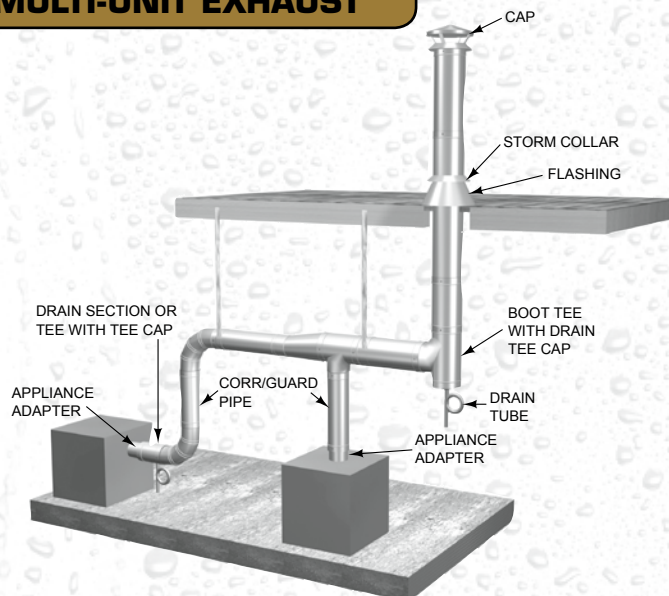
NOTE:

For Additional Information
See Corr/Guard II Installation Instructions, No. L2591
Available at: www.metal-fabcommercial.com

SIDEWALL EXHAUST



MULTI-UNIT EXHAUST



COMPONENTS

Corr/Guard II is identified as "FCGSW" and "FCG" designating the flanged design incorporated in 6" – 36" diameters.

Corr/Guard II is now available in a multitude of material options to address your unique applications. To facilitate the ordering process we have implemented a "CTO" code which allows you to **Configure To Order**. The CTO code consists of three (3) designators. The 1st identifies flue material; the 2nd identifies outer casing material, and the 3rd, (always "0" on Corr/Guard II) indicates the product is "air" insulated.

Selections

FLUE	CASING	INSULATION
C – AL29-4C STAINLESS	A – ALUMINIZED STEEL 3 – 430 STAINLESS 4 – 304 STAINLESS 6 – 316 STAINLESS	0 – Air Insulated

Example:

You have selected a 6" diameter pipe section, 36" in length, double wall construction, with a 430 stainless casing. The part number is 6 (diameter)-FCG (flanged Corr/Guard II) 36-36" length. Additionally, you have selected the CTO code: C (AL29-4C Stainless Flue)-3 (430 Stainless Casing)-0 (Air Insulated).

The complete designation is: 6FCG36 – C30.

CORROSION RESISTANCE

Corr/Guard II products are designed for use on today's highly efficient condensing appliances. AL29-4C, a Superferritic Stainless Steel was the 1st steel to successfully exceed the requirements of UL 1738, "Standard For Venting Systems For Gas-Burning Appliances, Categories II, III, and IV. It is considered the benchmark for flue materials.

CORR/GUARD® II COMPONENTS 6" - 36" DIAMETERS

Metal-Fab provides an Appliance / Adapter Cross-Reference guide listing the most popular appliances and the Adapter required to connect Corr/Guard Venting systems. The Cross-Reference is available on our web site: <http://www.metal-fabcommercial.com/media/L2159.pdf>

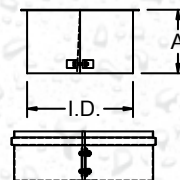
SINGLE WALL BOILER ADAPTER (SBA)

Flow Resistance K = same as pipe

NOTE: Used to attach pipe to straight shank outlets.
Attaches around exterior of collar. FCG SBA includes closure band. Not required on FCGSW.

6" - 24": A = 7" (178)

26" - 36": A = 6" (102)



CASING END CLOSURE

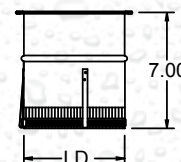
SINGLE WALL BOILER ADAPTER - INSIDE (SBAI)

6" - 24" Diameters

Use on vertical outlets when appliance incorporates condensate drain.

Flow Resistance K = same as pipe

NOTE: Not available above 24".



CASING END CLOSURE

REDUCER COLLAR (RC)

Flow Resistance K = same as pipe.

A: Inlet Diameter

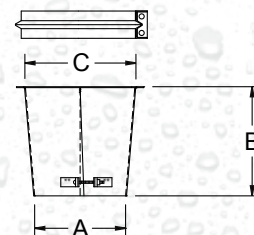
B: Component Length: 6" - 24" = 7" (178)

C: Outlet Diameter

Used to attach pipe to an outlet source up to 2" smaller than pipe diameter.

Specify dimensions when ordering.

Example: 8 (outlet) FCG7 (Inlet) RC



CASING END CLOSURE

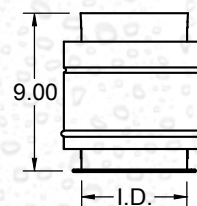
FEMALE FLANGE CONNECTOR (FFC)

6" - 24" Diameters

Flow Resistance K = same as pipe

Used to transition from Corr/Guard II to Corr/Guard

NOTE: Not available in 7" or 9".



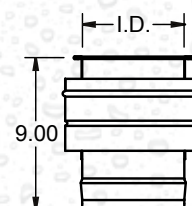
MALE FLANGE CONNECTOR (MFC)

6"-24" Diameters

Flow resistance K = same as pipe

Used to transition from Corr/Guard to Corr/Guard II

NOTE: Not available in 7" or 9".

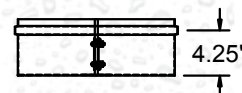


CASING END CLOSURE (CEC)

Used as an end cover when transitioning from FCGSW single wall to FCG double wall construction.

Height: 6" - 24": 3". Attaches to casing with sheet metal screws.

26" - 36": 4.25". Clamps around casing bead.



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

PIPE LENGTHS

STRAIGHT LENGTH 6" THRU 24"	
PIPE LENGTHS	INSTALLED LENGTH
9" (229)	7.75" (197)
12" (305)	10.75" (273)
18" (458)	16.75" (425)
24" (610)	22.75" (578)
36" (915)	34.75" (883)

STRAIGHT LENGTH 26" THRU 36"	
PIPE LENGTHS	INSTALLED LENGTH
9" (229)	7.875" (200)
12" (305)	10.875" (276)
18" (458)	16.875" (429)
24" (610)	22.875" (581)
36" (915)	34.875" (886)

PIPE I.D.	PIPE O.D.
FCGSW	FCG
6" (153)	8" (204)
7" (178)	9" (229)
8" (204)	10" (254)
9" (229)	11" (280)
10" (254)	12" (305)
12" (305)	14" (356)
14" (356)	16" (407)
16" (407)	18" (458)
18" (458)	20" (508)
20" (508)	22" (559)
22" (559)	24" (610)
24" (610)	26" (661)
26" (661)	28" (712)
28" (712)	30" (762)
30" (762)	32" (813)
32" (813)	34" (864)
34" (864)	36" (915)
36" (915)	38" (966)

NOTE: Note deduction for installed lengths.

Flow Resistance $K = .4 \left(\frac{L}{D} \right)$ for 6"(152) - 16"(606) diameters

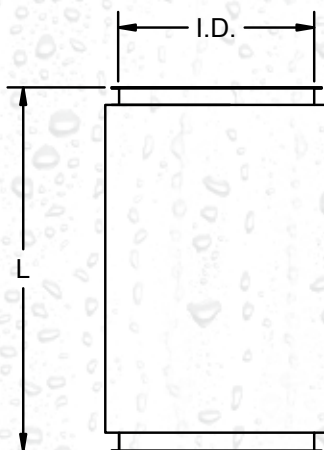
Flow Resistance $K = .3 \left(\frac{L}{D} \right)$ for 18"(458) - 36"(915) diameters

Flow Resistance $K = .25 \left(\frac{L}{D} \right)$ for Engine and turbine exhausts,

L = pipe length in feet

D = pipe diameter in inches

NOTE: Custom lengths available, contact factory.



VARIABLE LENGTH (VL)

Flow Resistance $K = .4 \left(\frac{L}{D} \right)$

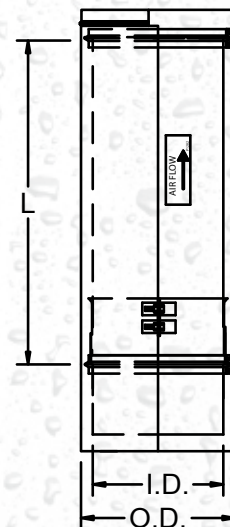
L = pipe length in feet

D = flue diameter

NOTE: Used to fill gaps between standard length components. Does not allow for expansion.

INSTALLED LENGTH

	VL10	VL22
Minimum:	7.5" (191)	7.5" (191)
Maximum:	10" (254)	22" (559)



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

TAPERED INCREASER (TI)

$$\text{Flow Resistance } K = .51 \frac{[1 - (\frac{A}{C})]^2}{(\frac{A}{C})^4}$$

A = Inlet Diameter

B = Installed Length – See Table

NOTE: ½ Step = 1" increase in diameter;

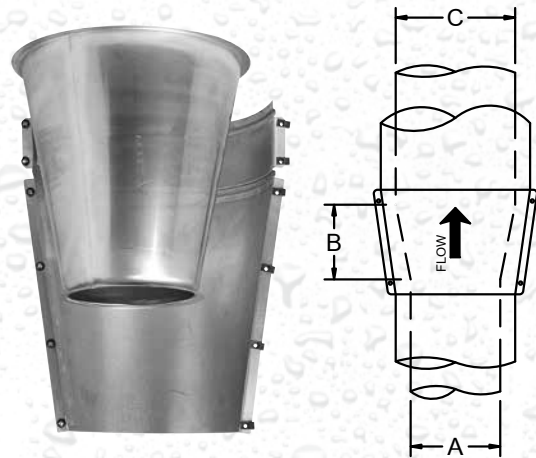
1 Step = 2" increase in diameter

Steps	½ - 3	3 ½ - 6
"B" Length	15" (381)	20" (508)

C = Outlet Diameter

When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 12FCGTI14 for 12" to 14" increase.

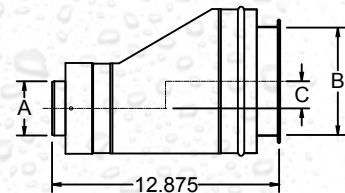


EXCENTRIC TAPERED INCREASER (EI)

3" – 5" Diameters

A		B		C	
3.00	(76)	6.00	(152)	1.50	(38)
4.00	(102)	6.00	(152)	1.00	(25)
5.00	(127)	6.00	(152)	0.50	(13)

Dimensions in inches (mm).



EXCENTRIC TAPERED INCREASER (EI)

6" – 36" Diameters

$$\text{Flow Resistance } K = .51 \frac{[1 - (\frac{A}{C})]^2}{(\frac{A}{C})^4}$$

A = Inlet Diameter

B = Installed Length – See Table

NOTE: ½ Step = 1" increase in diameter;

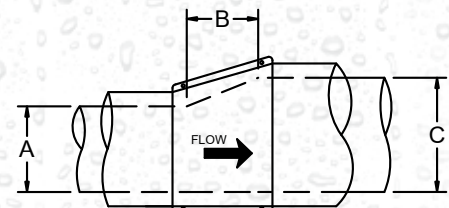
1 Step = 2" increase in diameter

Steps	½ - 2	2 ½ - 4	4.5 - 6
"B" Length	15" (381)	21" (534)	28" (712)

C = Outlet diameter

When ordering, specify inlet and outlet diameters with inlet diameter first.

Example: 12FCGEI14 for 12" to 14" increase.



VARIABLE OFFSET KIT (VOK)

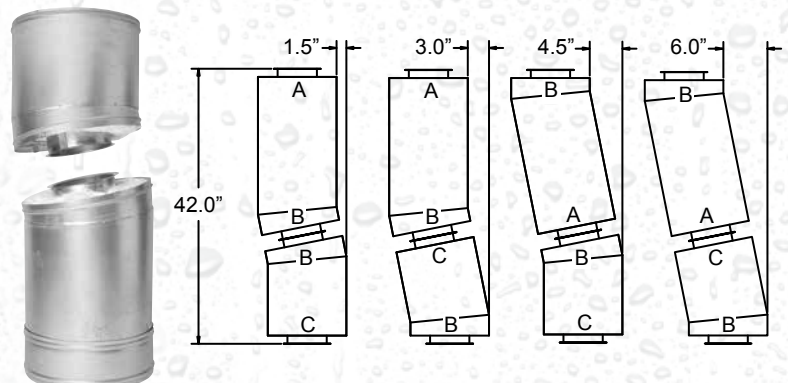
26" – 36" Diameters

Flow Resistance K = 0.9

Assembled Length = 42"

ENDS JOINED	OFFSET
B-B	1.5"
B-C	3.0"
A-B	4.5"
A-C	6.0"

Provides offsets of 1.5", 3.0", 4.5", & 6" by rotating components.



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

15° ELBOW (15L)

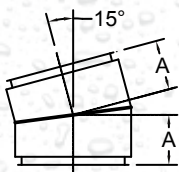
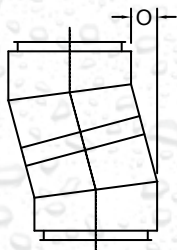
Flow Resistance K = 0.06

Offset Distance:

$$O = 2 \times "A" \times 0.259$$

Offset distance with
pipe length between elbows:

$$O = (2 \times "A" + \text{pipe length}) \times 0.259$$



PIPE I.D.		A	
		FCGSW / FCG	
6"	(153)	4.56"	(116)
7"	(178)	4.63"	(118)
8"	(204)	4.68"	(119)
9"	(229)	4.75"	(121)
10"	(254)	4.88"	(124)
12"	(305)	5.00"	(127)
14"	(356)	5.13"	(130)
16"	(407)	5.25"	(133)
18"	(458)	5.38"	(137)
20"	(508)	5.50"	(140)
22"	(559)	5.63"	(153)
24"	(610)	5.75"	(146)
26"	(661)	8.50"	(216)
28"	(712)	8.50"	(216)
30"	(762)	8.50"	(216)
32"	(813)	8.50"	(216)
34"	(864)	8.50"	(216)
36"	(915)	8.50"	(216)

Dimensions in inches (mm).

30° ELBOW (30L)

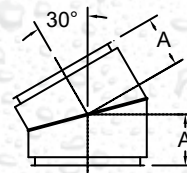
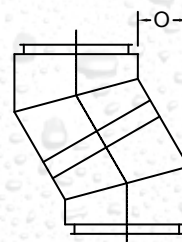
Flow Resistance K = 0.12

Offset Distance:

$$O = 2 \times "A" \times 0.5$$

Offset distance with
pipe length between elbows:

$$O = (2 \times "A" + \text{pipe length}) \times 0.5$$



PIPE I.D.		A	
		FCGSW / FCG	
6"	(153)	5.00"	(127)
7"	(178)	5.13"	(130)
8"	(204)	5.25"	(133)
9"	(229)	5.38"	(137)
10"	(254)	5.50"	(140)
12"	(305)	5.75"	(146)
14"	(356)	6.06"	(154)
16"	(407)	6.38"	(162)
18"	(458)	6.63"	(168)
20"	(508)	6.88"	(175)
22"	(559)	7.13"	(181)
24"	(610)	7.38"	(187)
26"	(661)	8.50"	(216)
28"	(712)	8.50"	(216)
30"	(762)	8.50"	(216)
32"	(813)	8.50"	(216)
34"	(864)	8.50"	(216)
36"	(915)	8.50"	(216)

Dimensions in inches (mm).

CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

45° ELBOW (45L)

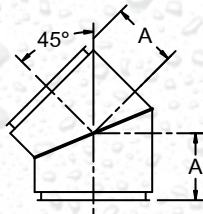
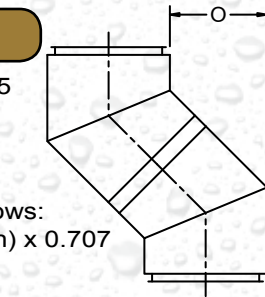
Flow Resistance K = 0.15

Offset Distance:

$$O = 2 \times "A" \times 0.707$$

Offset Distance with
pipe length between elbows:

$$O = (2 \times "A" + \text{pipe length}) \times 0.707$$



PIPE I.D.		A	
		FCGSW / FCG	
6"	(153)	5.44"	(138)
7"	(178)	5.63"	(143)
8"	(204)	5.86"	(149)
9"	(229)	6.06"	(154)
10"	(254)	6.26"	(159)
12"	(305)	6.76"	(172)
14"	(356)	7.13"	(181)
16"	(407)	7.51"	(191)
18"	(458)	7.94"	(202)
20"	(508)	8.32"	(211)
22"	(559)	8.76"	(223)
24"	(610)	9.26"	(235)
26"	(661)	11.75"	(299)
28"	(712)	11.75"	(299)
30"	(762)	11.75"	(299)
32"	(813)	11.75"	(299)
34"	(864)	11.75"	(299)
36"	(915)	11.75"	(299)

Dimensions in inches (mm).

90° ELBOW (90L)

Flow Resistance K:

$$6" - 8" = 0.38$$

$$9" - 18" = 0.42$$

$$20" - 26" = 0.54$$

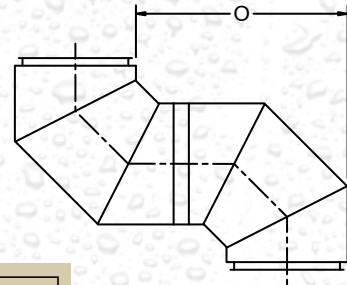
$$28" - 36" = 0.72$$

Offset Distance:

$$O = 2 \times "A"$$

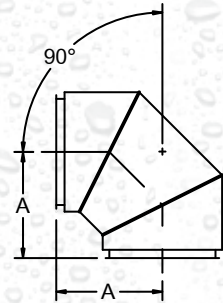
Offset Distance with pipe
length between elbows:

$$O = 2 \times "A" + \text{pipe length}$$



PIPE I.D.		A	
		FCGSW / FCG	
6"	(153)	8.88"	(225)
7"	(178)	9.38"	(238)
8"	(204)	9.88"	(251)
9"	(229)	10.38"	(264)
10"	(254)	10.88"	(276)
12"	(305)	11.88"	(302)
14"	(356)	12.88"	(327)
16"	(407)	13.88"	(352)
18"	(458)	14.88"	(378)
20"	(508)	15.88"	(403)
22"	(559)	16.88"	(429)
24"	(610)	17.88"	(454)
26"	(661)	21"	(534)
28"	(712)	22"	(559)
30"	(762)	23"	(585)
32"	(813)	24"	(610)
34"	(864)	25"	(635)
36"	(915)	26"	(661)

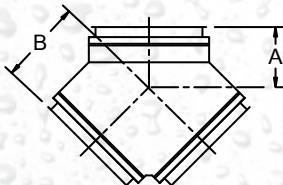
Dimensions in inches (mm).



90° WYE (90Y)

Flow Resistance K = 0.6

NOTE: Available in 26" – 36"
diameters only.



PIPE I.D.	FCGSW / FCG	
	A	B
26" (661)	9.37 (238)	19" (483)
28" (712)	9.75 (248)	20" (508)
30" (762)	10.25 (261)	21" (534)
32" (813)	10.62 (270)	22" (559)
34" (864)	11.12 (283)	23" (585)
36" (915)	11.50 (292)	24" (610)

CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

BOOT TEE (BT)

6" – 24" Diameters

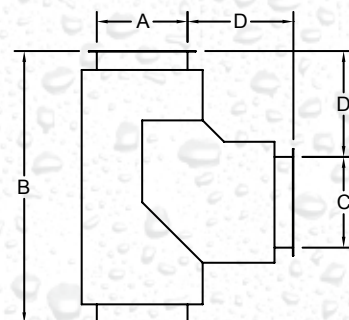
Flow Resistance $K = 0.65$

A = Pipe I.D.

B = "C" I.D. + 12

C = Tap I.D.

D = 7"



BOOT TEE W/ DRAIN (BTD)

6" – 24" Diameters

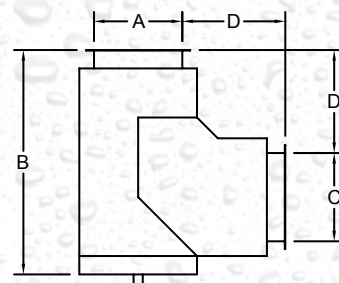
Flow Resistance $K = 0.65$

A = Pipe I.D.

B = "C" I.D. + 9.375

C = Tap I.D.

D = 7"



90° TEE (T)

Flow Resistance $K = 1.25$

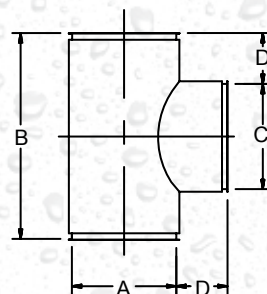
A = Pipe I.D.

B = "C" I.D. + 10"

C = Tap I.D.

D = 5"

NOTE: Specify tap diameter (C) at time of order.



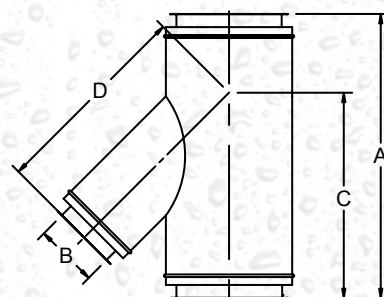
45° TEE (45T)

6" – 36" Diameters

Flow Resistance $K = 0.4$

NOTE: Used for low resistance flow into vertical or horizontal run. Specify Tap Diameter "B" when ordering.

NOTE: For dimensional information see tables on page 18.



DOUBLE LATERAL (DL)

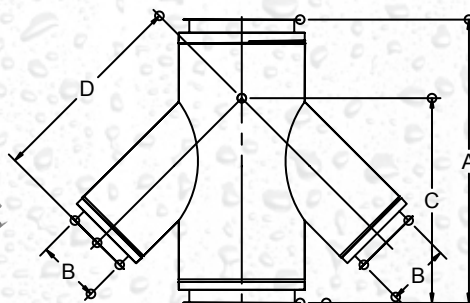
26" to 36" Diameters.

Flow Resistance $K = 0.4$

NOTE: Used to centrally connect two appliance manifolds to a common chimney. Specify tap diameter "B" at time of order.

NOTE: Tap dia. must be less than Body dia.

NOTE: For dimensional information see tables on page 18.

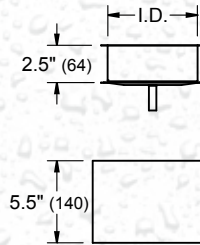


CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

DRAIN TEE CAP W/ CASING END CLOSURE (TC)

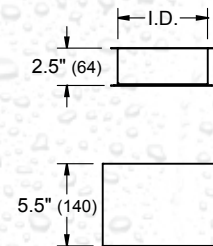
6" – 24" Diameters

Drain Diameter: 5/8"



TEE CAP LESS DRAIN W/ CASING END CLOSURE (TCN)

6" – 24" Diameters



DRAIN TEE CAP W/ CASING END CLOSURE (TC)

26" – 36" Diameters

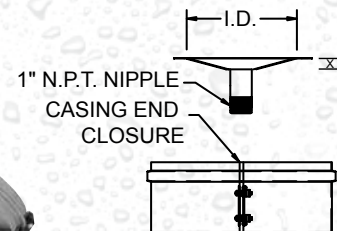
NOTE: Provides drain port for rain or condensation.

A To compute length

$$X = \left(\frac{ID-6}{2} \right) \times .268 + .233$$

Add 3" for Nipple.

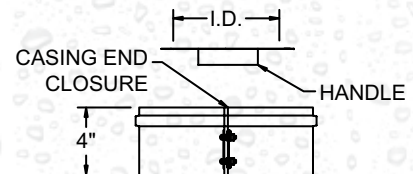
Drain Diameter: 1" NPT



TEE CAP LESS DRAIN W/ CASING END CLOSURE (TCN)

26" – 36" Diameters

NOTE: Used to close and seal unused port of Tees, Wyes and Laterals.

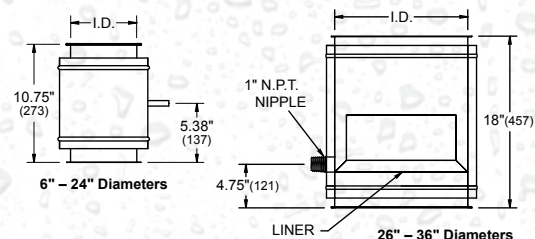


DRAIN SECTION (DS)

Flow Resistance K = 0.25

NOTE: Used to drain rain water or condensation from inside the stack.

Drain Diameter: 6" – 24" = 1/2"
26" – 36" = 1" NPT



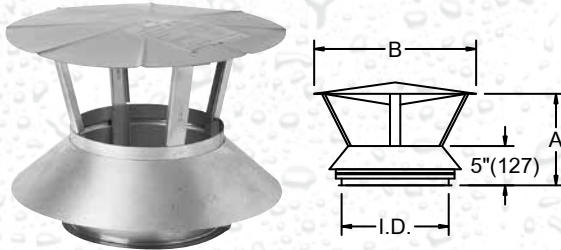
CORR/GUARD® II COMPONENTS 6" - 36" DIAMETERS

STACK CAP (C)

Flow resistance K = 0.5

NOTE: Provides partial rain protection. Use of Drain Tee Cap (TC) or Vertical Drain Section (VDS) is recommended.

NOTE: Also available with bird screen order as (CB).

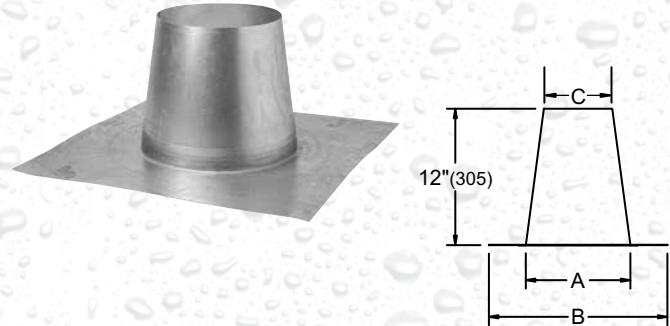


PIPE I.D.	A		B	
6" (153)	9.50"	(241)	11"	(280)
7" (178)	10.50"	(267)	12.5"	(318)
8" (204)	11.50"	(292)	14"	(356)
9" (229)	12.75"	(324)	15.5"	(394)
10" (254)	13.50"	(343)	17"	(432)
12" (305)	14.50"	(368)	21"	(534)
14" (356)	15.50"	(394)	24"	(610)
16" (407)	17.50"	(445)	28"	(712)
18" (458)	18.50"	(470)	31"	(788)
20" (508)	20.50"	(521)	34"	(864)
22" (559)	21.50"	(546)	38"	(965)
24" (610)	23.50"	(597)	41"	(1041)
26" (661)	25.50"	(648)	44"	(1118)
28" (712)	27.50"	(699)	48"	(1219)
30" (762)	29.50"	(749)	51"	(1295)
32" (813)	31.50"	(800)	54"	(1372)
34" (864)	33.50"	(851)	58"	(1473)
36" (915)	35.50"	(902)	61"	(1549)

Dimensions in inches (mm).

TALL CONE FLASHING (F)

Used for flat roof applications.



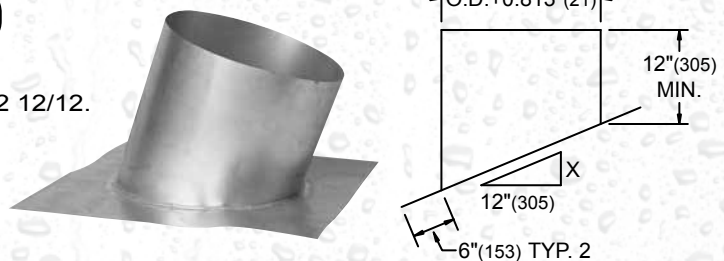
PIPE I.D.	CGSW				CG			
	A		B		A		B	
6" (153)	12"	(305)	24"	(610)	12"	(305)	24"	(610)
7" (178)	13"	(330)	25"	(635)	14"	(356)	26"	(661)
8" (204)	14"	(356)	26"	(661)	15"	(381)	27"	(686)
9" (229)	15"	(381)	27"	(686)	16"	(407)	28"	(712)
10" (254)	16"	(407)	28"	(712)	17"	(432)	29"	(737)
12" (305)	18"	(458)	30"	(762)	18"	(458)	30"	(762)
14" (356)	20"	(508)	32"	(813)	20"	(508)	32"	(813)
16" (407)	22"	(559)	34"	(864)	22"	(559)	34"	(864)
18" (458)	24"	(610)	36"	(915)	24"	(610)	36"	(915)
20" (508)	26"	(661)	38"	(966)	26"	(661)	38"	(966)
22" (559)	28"	(712)	40"	(1016)	28"	(712)	40"	(1016)
24" (610)	30"	(762)	42"	(1067)	30"	(762)	42"	(1067)
26" (661)	32"	(813)	44"	(1118)	32"	(813)	44"	(1118)
28" (712)	34"	(864)	46"	(1168)	34"	(864)	46"	(1168)
30" (762)	36"	(914)	48"	(1219)	36"	(914)	48"	(1219)
32" (813)	38"	(965)	50"	(1270)	38"	(965)	50"	(1270)
34" (864)	40"	(1016)	52"	(1321)	40"	(1016)	52"	(1321)
36" (914)	42"	(1067)	54"	(1372)	42"	(1067)	54"	(1372)

Dimensions in inches (mm).

FIXED PITCH FLASHING (FPF)

NOTES:

1. X=PITCH RATE, AVAILABLE RATES 1/12 12/12. Please specify pitch rate with order.
2. Fixed Pitch Flashing is available in sizes from 6" through 36".



STORM COLLAR (SC)

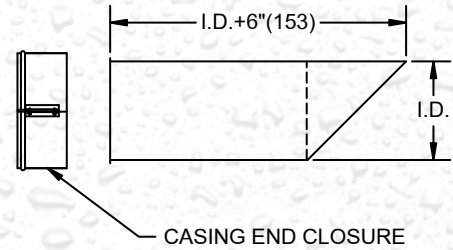
A = Pipe Diameter (O.D.)



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

MITER CUT (MC)

NOTE: Used for horizontal termination. Standard with bird screen.

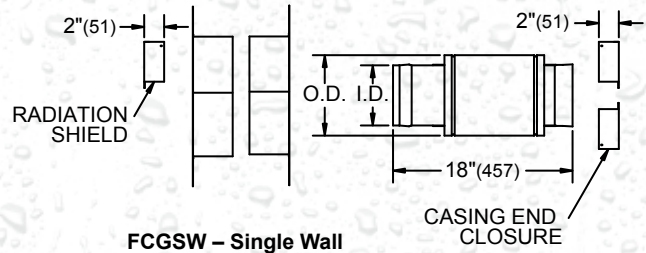


WALL PENETRATOR KIT (WPK)

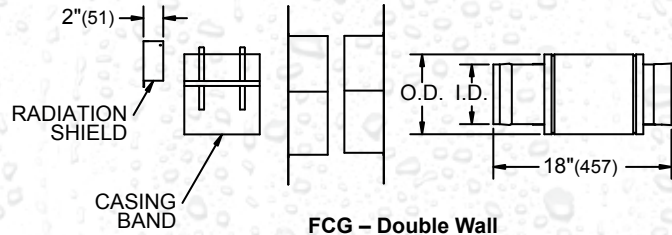
NOTE: Used for horizontal penetrations. One 18" length included. Max wall thickness = 6.5"



Framing dimension I.D. + 6"



FCGSW – Single Wall

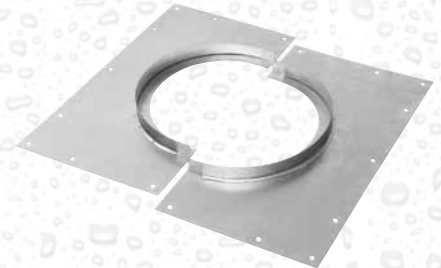
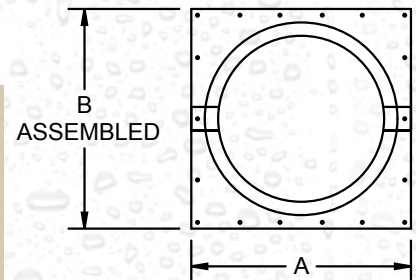


FCG – Double Wall

FIRESTOP (FS)

PIPE I.D.		FCGSW				FCG			
		A		B		A		B	
6"	(153)	16"	(407)	16"	(407)	18"	(458)	18"	(458)
7"	(178)	17"	(432)	17"	(432)	19"	(483)	19"	(483)
8"	(204)	18"	(458)	18"	(458)	20"	(508)	20"	(508)
9"	(229)	19"	(483)	19"	(483)	21"	(533)	21"	(533)
10"	(254)	20"	(508)	20"	(508)	22"	(559)	22"	(559)
12"	(305)	22"	(559)	22"	(559)	24"	(610)	24"	(610)
14"	(356)	24"	(610)	24"	(610)	26"	(661)	26"	(661)
16"	(407)	26"	(661)	26"	(661)	28"	(712)	28"	(712)
18"	(458)	28"	(712)	28"	(712)	30"	(762)	30"	(762)
20"	(508)	30"	(762)	30"	(762)	32"	(813)	32"	(813)
22"	(559)	32"	(813)	32"	(813)	34"	(864)	34"	(864)
24"	(610)	34"	(864)	34"	(864)	36"	(915)	36"	(915)
26"	(661)	36"	(915)	36"	(915)	38"	(966)	38"	(966)
28"	(712)	38"	(966)	38"	(966)	40"	(1016)	40"	(1016)
30"	(762)	40"	(1016)	40"	(1016)	42"	(1067)	42"	(1067)
32"	(813)	42"	(1067)	42"	(1067)	44"	(1118)	44"	(1118)
34"	(864)	44"	(1118)	44"	(1118)	46"	(1168)	46"	(1168)
36"	(914)	46"	(1168)	46"	(1168)	48"	(1219)	48"	(1219)

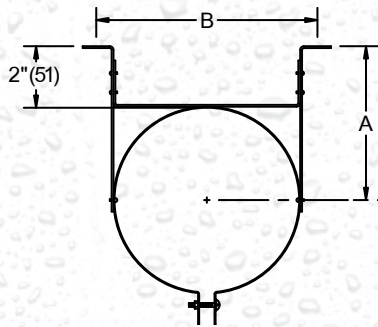
Dimensions in inches (mm).



WALL BAND (WB)

6" – 16" Diameters

For interior use only. Do not exceed 8' 0" between supports.



PIPE I.D.		FCGSW				FCG			
		A		B		A		B	
6"	(153)	5.00	(127)	7.07	(180)	6.00	(153)	9.07	(230)
7"	(178)	5.50	(140)	8.07	(205)	6.50	(165)	10.07	(256)
8"	(204)	6.00	(153)	9.07	(230)	7.00	(178)	11.07	(281)
9"	(229)	6.50	(165)	10.07	(256)	7.50	(191)	12.07	(307)
10"	(254)	7.00	(178)	11.07	(281)	8.00	(204)	13.07	(332)
12"	(305)	8.00	(204)	13.07	(332)	9.00	(229)	15.07	(383)
14"	(356)	N/A		N/A		10.00	(254)	17.07	(434)
16"	(407)	N/A		N/A		11.00	(279)	19.07	(484)

Dimensions in inches (mm).



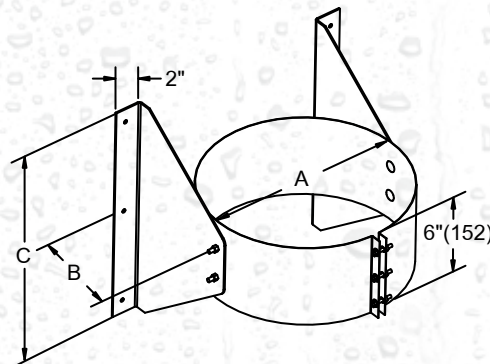
WALL SUPPORT (WS)

6" – 24" Diameters

The wall support is used to secure the vent to interior and exterior walls, maintaining clearance and providing alignment. Do not exceed 30 ft. distance between supports on interior walls. Do not exceed 8 ft. between supports on exterior walls.

PIPE I.D.		FCGSW						FCG					
		A		B		C		A		B		C	
6"		6	(152)	5	(127)	8	(203)	8	(203)	5	(127)	8	(203)
7"		7	(178)	5.5	(140)	9	(229)	9	(229)	5.5	(178)	9	(229)
8"		8	(203)	6	(152)	10	(254)	10	(254)	6	(152)	10	(254)
9"		9	(229)	6.5	(165)	11	(279)	11	(279)	6.5	(165)	11	(279)
10"		10	(254)	7	(178)	12	(305)	12	(305)	7	(178)	12	(305)
12"		12	(305)	8	(203)	14	(356)	14	(356)	8	(203)	14	(356)
14"		14	(356)	13	(330)	16	(406)	16	(406)	13	(330)	16	(406)
16"		16	(406)	14	(356)	18	(457)	18	(457)	14	(356)	18	(457)
18"		18	(457)	15	(381)	20	(508)	20	(508)	15	(381)	20	(508)
20"		20	(508)	16	(406)	22	(559)	22	(559)	16	(406)	22	(559)
22"		22	(559)	17	(432)	24	(610)	24	(610)	17	(432)	24	(610)
24"		24	(610)	18	(457)	26	(660)	26	(660)	18	(457)	26	(660)

Dimensions in inches (mm).



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

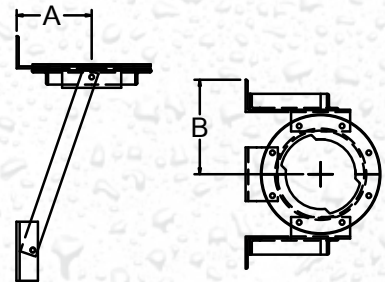
WALL SUPPORT (WS)

26" – 36" Diameters

Used to provide vertical support.

NOTE: Does not allow for thermal expansion.
(Zinc Plated)

PIPE I.D.	FCGSW / FCG	
	A	B
26" (661)	18.62 (473)	18.00 (458)
28" (712)	19.62 (499)	19.00 (483)
30" (762)	20.62 (524)	20.00 (508)
32" (813)	21.62 (550)	21.00 (534)
34" (864)	23.12 (588)	22.50 (572)
36" (915)	24.12 (613)	23.50 (597)



Do not exceed 40' between supports on interior walls.

Do not exceed 10' between supports on exterior walls

PLATE SUPPORT (PS)

Provides vertical or horizontal rigid support.

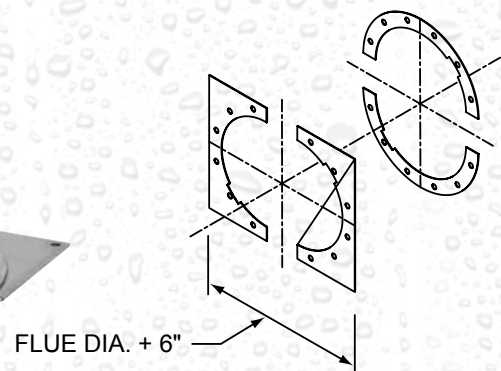
Includes split plates, clamp flanges, and 1/2 closure bands.

NOTE: Does not allow for thermal expansion.
Plate dimension = Flue diameter + 6"

(Zinc Plated)

Do not exceed "X" between supports.

6" – 12" FCGSW	X = 100'
14" – 24" FCGSW	X = 75'
26" – 36" FCGSW	X = 100'
6" – 12" FCG	X = 50'
26" – 36" FCG	X = 100'
14" – 24" FCG	X = 30'



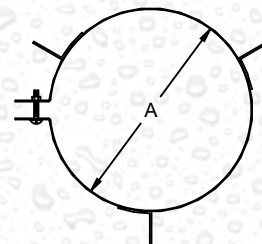
GUY RING (GR)

6" – 24" Diameters

NOTE: Guy Ring clamps around outside of pipe.

A = Flue Diameter for FCGSW

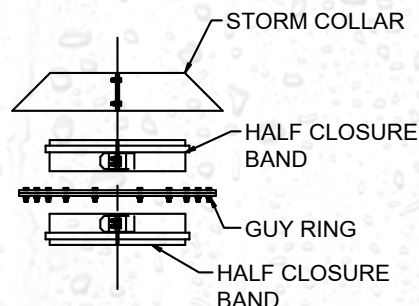
A = Flue Diameter + 2" for FCG



GUY RING (GR)

26" – 36" Diameters

NOTE: Guy Ring is installed at the flange to flange joint of two sections of pipe. Storm Collar and Half Closure Bands are included. See installation instructions for correct location.



CORR/GUARD® II COMPONENTS 6" – 36" DIAMETERS

HALF ANGLE RING (HAR)

6" – 24" Diameters

Maximum distance between supports or elbows = 7' 0"



HALF ANGLE RING (HAR)

26" – 36" Diameters

Used to support horizontal runs.

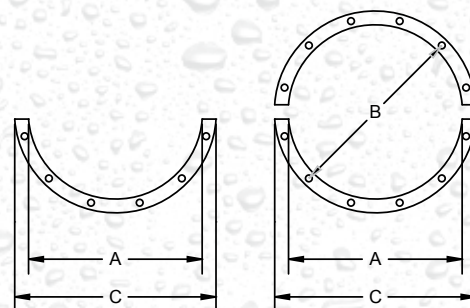
(Zinc Plated)

Maximum distance between supports or elbows = 10' 6"



HALF ANGLE RING

FULL ANGLE RING



FULL ANGLE RING (FAR)

26" – 36" Diameters

Provides lateral support for vertical runs. Allows pipe movement for thermal expansion.

(Zinc Plated)



PRODUCT		DIMENSIONS			
PIPE I.D.		Inside	Hole Centerline	Outside	Hole Qty.
FCGSW	FCG	A	B	C	D
26" (661)	-	26.25 (667)	28.50 (724)	30.25 (769)	24
28" (712)	26" (661)	28.25 (718)	30.50 (775)	32.25 (820)	24
30" (762)	28" (712)	30.25 (769)	32.50 (826)	34.25 (870)	28
32" (813)	30" (762)	32.25 (820)	34.50 (877)	36.25 (921)	28
34" (864)	32" (813)	34.25 (870)	36.50 (928)	38.25 (972)	32
36" (915)	34" (864)	36.25 (921)	38.50 (978)	40.25 (1022)	32
-	36" (915)	38.25 (972)	40.50 (1029)	42.25 (1073)	36

STACK SUPPORT ASSEMBLY (SSA)

Supports Vertical Stack at floor level. Includes moisture drain.

Maximum Supported Height:

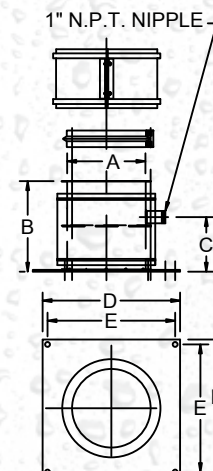
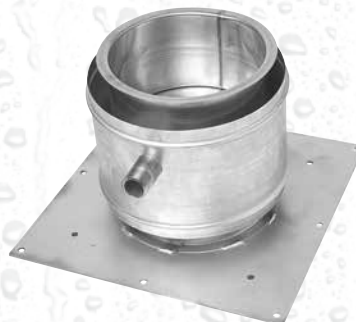
6" – 12" FCGSW = 100'

14" – 24" FCGSW = 75'

14" – 24" FCG = 30'

26" – 36" FCG / FCGSW = 100'

6" – 12" FCG = 50'



FCGSW / FCG

A = PIPE I.D.

B = 9" (229)

C = 5.5" (140)

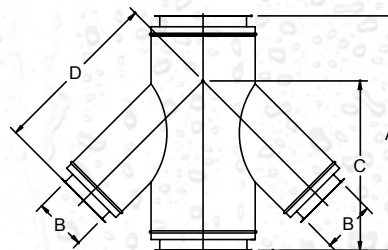
D = A+7" (148)

E = A+6" (152)

DIMENSIONAL DATA 6" - 36" DIAMETERS

FCGSW and FCG 45MT & DL TABLE IN INCHES
6" - 36" Diameters

	TAP I.D.											
	36	34	32	30	28	26	24	22	20	18	16	14
36FCG	"A" 63.74	60.91	58.08	55.26	52.43	49.60	46.77	43.94	41.11	38.28	37.46	36.63
	"B" 36	34	32	30	28	26	24	22	20	18	16	14
	"C" 50.87	49.46	48.04	46.63	45.21	43.80	42.39	40.97	39.56	38.14	36.73	35.31
	"D" 50.87	49.87	48.87	47.87	46.87	45.87	44.87	43.87	42.87	41.87	40.87	39.87
34FCG	34	32	30	28	26	24	22	20	18	16	14	12
	"A" 60.91	58.08	55.26	52.43	49.60	46.77	43.94	41.11	38.28	36.46	35.63	33.80
	"B" 34	32	30	28	26	24	22	20	18	16	14	12
	"C" 48.46	47.04	45.63	44.21	42.80	41.39	39.97	38.56	37.14	35.73	34.31	32.90
	"D" 48.46	47.46	46.46	45.46	44.46	43.46	42.46	41.46	40.46	39.46	38.46	37.46
32FCG	32	30	28	26	24	22	20	18	16	14	12	10
	"A" 58.08	55.26	52.43	49.60	46.77	43.94	41.11	38.28	35.46	34.63	32.80	30.97
	"B" 32	30	28	26	24	22	20	18	16	14	12	10
	"C" 46.04	44.63	43.21	41.80	40.39	38.97	37.56	36.14	34.73	33.31	31.90	30.49
	"D" 46.04	45.04	44.04	43.04	42.04	41.04	40.04	39.04	38.04	37.04	36.04	35.04
30FCG	30	28	26	24	22	20	18	16	14	12	10	8
	"A" 55.26	52.43	49.60	46.77	43.94	41.11	38.28	35.46	32.63	31.80	29.97	28.14
	"B" 30	28	26	24	22	20	18	16	14	12	10	8
	"C" 43.63	42.21	40.80	39.39	37.97	36.56	35.14	33.73	32.31	30.90	29.49	28.07
	"D" 43.63	42.63	41.63	40.63	39.63	38.63	37.63	36.63	35.63	34.63	33.63	32.63
28FCG	28	26	24	22	20	18	16	14	12	10	8	6
	"A" 52.43	49.60	46.77	43.94	41.11	38.28	35.46	32.63	30.80	28.97	27.14	26.31
	"B" 28	26	24	22	20	18	16	14	12	10	8	6
	"C" 41.21	39.80	38.39	36.97	35.56	34.14	32.73	31.31	29.90	28.49	27.07	26.24
	"D" 41.21	40.21	39.21	38.21	37.21	36.21	35.21	34.21	33.21	32.21	31.21	30.21
26FCG	26	24	22	20	18	16	14	12	10	8	6	
	"A" 49.60	46.77	43.94	41.11	38.28	35.46	32.63	29.80	27.97	26.14	25.31	
	"B" 26	24	22	20	18	16	14	12	10	8	6	
	"C" 38.80	37.39	35.97	34.56	33.14	31.73	30.31	28.90	27.49	26.07	25.24	
	"D" 38.80	37.80	36.80	35.80	34.80	33.80	32.80	31.80	30.80	29.80	28.80	
24FCG	24	22	20	18	16	14	12	10	8	6		
	"A" 46.77	43.94	41.11	38.28	35.46	32.63	29.80	26.97	25.14	24.31		
	"B" 24	22	20	18	16	14	12	10	8	6		
	"C" 36.39	34.97	33.56	32.14	30.73	29.31	27.90	26.49	25.07	24.24		
	"D" 36.39	35.39	34.39	33.39	32.39	31.39	30.39	29.39	28.39	27.39		
22FCG	22	20	18	16	14	12	10	8	6			
	"A" 43.94	41.11	38.28	35.46	32.63	29.80	26.97	24.14	23.31			
	"B" 22	20	18	16	14	12	10	8	6			
	"C" 33.97	32.56	31.14	29.73	28.31	26.90	25.49	24.07	23.24			
	"D" 33.97	32.97	31.97	30.97	29.97	28.97	27.97	26.97	25.97			
20FCG	20	18	16	14	12	10	8	6				
	"A" 41.11	38.28	35.46	32.63	29.80	26.97	24.14	23.31				
	"B" 20	18	16	14	12	10	8	6				
	"C" 31.56	30.14	28.73	27.31	25.90	24.49	23.07	22.24				
	"D" 31.56	30.56	29.56	28.56	27.56	26.56	25.56	24.56				
18FCG	18	16	14	12	10	8	6					
	"A" 38.28	35.46	32.63	29.80	26.97	24.14	23.31					
	"B" 18	16	14	12	10	8	6					
	"C" 29.14	27.73	26.31	24.90	23.49	22.07	21.24					
	"D" 29.14	28.14	27.14	26.14	25.14	24.14	23.14					
16FCG	16	14	12	10	9	8	6					
	"A" 35.46	32.63	29.80	26.97	25.56	24.14	23.31					
	"B" 16	14	12	10	9	8	6					
	"C" 26.73	25.31	23.90	22.49	21.07	20.24	19.41					
	"D" 26.73	25.73	24.73	23.73	22.73	21.73	20.73					
14FCG	14	12	10	9	8	7	6					
	"A" 32.63	29.80	26.97	25.56	24.14	22.73	21.31					
	"B" 14	12	10	9	8	7	6					
	"C" 24.31	22.90	21.49	20.07	19.24	18.41	17.58					
	"D" 24.31	23.31	22.31	21.31	20.31	19.31	18.31					
12FCG	12	10	9	8	7	6						
	"A" 29.80	26.97	25.56	24.14	22.73	21.31						
	"B" 12	10	9	8	7	6						
	"C" 21.90	20.49	19.07	18.24	17.41	16.58						
	"D" 21.90	20.90	19.90	18.90	17.90	16.90						
10FCG	10	9	8	7	6							
	"A" 26.97	25.56	24.14	22.73	21.31							
	"B" 10	9	8	7	6							
	"C" 19.49	18.07	17.24	16.41	15.58							
	"D" 19.49	18.49	17.49	16.49	15.49							
9FCG	9	8	7	6								
	"A" 25.56	24.14	22.73	21.31								
	"B" 9	8	7	6								
	"C" 18.28	17.57	16.86	16.16								
	"D" 18.28	17.28	16.28	15.28								
8FCG	8	7	6									
	"A" 24.14	22.73	21.31									
	"B" 8	7	6									
	"C" 17.07	16.36	15.66									
	"D" 17.07	16.07	15.07									
7FCG	7	6										
	"A" 22.73	21.31										
	"B" 7	6										
	"C" 15.86	15.16										
	"D" 15.86	14.86										
6FCG	6											
	"A" 21.31											
	"B" 6											
	"C" 14.66											
	"D" 14.66											

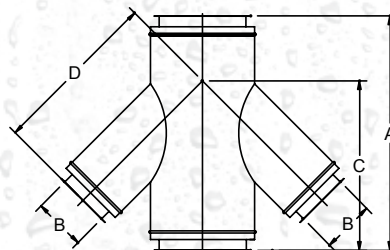


FCGSW and FCG 45MT & DL TABLE IN INCHES

DIMENSIONAL DATA 6" – 36" DIAMETERS

FCGSW and FCG 45MT & DL TABLE IN METRIC
153mm – 915mm Diameters

	TAP I.D.											
	36	34	32	30	28	26	24	22	20	18	16	14
36FCG	"A" 1619	1547	1475	1403	1332	1260	1188	1116	1044	972	900	828
	"B" 914	864	813	762	711	660	610	559	508	457	406	355
	"C" 1292	1256	1220	1184	1148	1112	1077	1041	1005	969	933	897
	"D" 1292	1267	1241	1216	1190	1165	1140	1114	1089	1063	1038	1013
34FCG	34	32	30	28	26	24	22	20	18	16	14	12
	"A" 1547	1475	1403	1332	1260	1188	1116	1044	972	900	828	756
	"B" 864	813	762	711	660	610	559	508	457	406	355	304
	"C" 1231	1195	1159	1123	1087	1051	1015	979	943	907	872	836
	"D" 1231	1205	1180	1155	1129	1104	1078	1053	1028	1002	977	951
32FCG	32	30	28	26	24	22	20	18	16	14	12	10
	"A" 1475	1403	1332	1260	1188	1116	1044	972	900	828	756	684
	"B" 813	762	711	660	610	559	508	457	406	355	304	253
	"C" 1169	1134	1098	1062	1026	990	954	918	882	846	810	774
	"D" 1169	1144	1119	1093	1068	1042	1017	992	966	941	915	890
30FCG	30	28	26	24	22	20	18	16	14	12	10	8
	"A" 1403	1332	1260	1188	1116	1044	972	900	829	757	685	613
	"B" 762	711	660	610	559	508	457	406	356	305	254	203
	"C" 1108	1072	1036	1000	964	929	893	857	821	785	749	713
	"D" 1108	1083	1057	1032	1007	981	956	930	905	880	854	829
28FCG	28	26	24	22	20	18	16	14	12	10	8	6
	"A" 1332	1260	1188	1116	1044	972	900	829	757	685	613	541
	"B" 711	660	610	559	508	457	406	356	305	254	203	152
	"C" 1047	1011	975	939	903	867	831	795	759	724	688	652
	"D" 1047	1021	996	971	945	920	894	869	844	818	793	767
26FCG	26	24	22	20	18	16	14	12	10	8	6	4
	"A" 1260	1188	1116	1044	972	900	829	757	685	613	541	469
	"B" 660	610	559	508	457	406	356	305	254	203	152	101
	"C" 985	950	914	878	842	806	770	734	698	662	626	590
	"D" 985	960	935	909	884	858	833	808	782	757	731	705
24FCG	24	22	20	18	16	14	12	10	8	6	4	2
	"A" 1188	1116	1044	972	900	829	757	685	613	541	469	397
	"B" 610	559	508	457	406	356	305	254	203	152	101	51
	"C" 924	888	852	816	780	745	709	673	637	601	565	529
	"D" 924	899	873	848	823	797	772	746	721	696	671	645
22FCG	22	20	18	16	14	12	10	8	6	4	2	1
	"A" 1116	1044	972	900	829	757	685	613	541	469	397	325
	"B" 559	508	457	406	356	305	254	203	152	101	51	26
	"C" 863	827	791	755	719	683	647	611	575	539	503	467
	"D" 863	837	812	787	761	736	710	685	660	635	610	585
20FCG	20	18	16	14	12	10	8	6	4	2	1	0
	"A" 1044	972	900	829	757	685	613	541	469	397	325	253
	"B" 508	457	406	356	305	254	203	152	101	51	26	1
	"C" 802	766	730	694	658	622	586	550	514	478	442	406
	"D" 802	776	751	725	700	675	649	624	598	573	548	523
18FCG	18	16	14	12	10	8	6	4	2	1	0	0
	"A" 972	900	829	757	685	613	541	469	397	325	253	181
	"B" 457	406	356	305	254	203	152	101	51	26	1	0
	"C" 740	704	668	632	597	561	525	489	453	417	381	345
	"D" 740	715	689	664	639	613	588	563	538	513	488	463
16FCG	16	14	12	10	8	6	4	2	1	0	0	0
	"A" 900	829	757	685	613	541	469	397	325	253	181	109
	"B" 406	356	305	254	203	152	101	51	26	1	0	0
	"C" 679	643	607	571	535	499	463	427	391	355	319	283
	"D" 679	653	628	603	578	552	527	502	477	452	427	402
14FCG	14	12	10	8	6	4	2	1	0	0	0	0
	"A" 829	757	685	613	541	469	397	325	253	181	109	37
	"B" 356	305	254	203	152	101	51	26	1	0	0	0
	"C" 618	582	546	510	474	438	402	366	330	294	258	222
	"D" 618	592	567	541	516	490	465	440	415	390	365	340
12FCG	12	10	8	6	4	2	1	0	0	0	0	0
	"A" 757	685	613	541	469	397	325	253	181	109	37	0
	"B" 305	254	203	152	101	51	26	1	0	0	0	0
	"C" 556	520	484	448	412	376	340	304	268	232	196	160
	"D" 556	531	505	479	453	427	401	375	349	323	297	271
10FCG	10	8	6	4	2	1	0	0	0	0	0	0
	"A" 685	613	541	469	397	325	253	181	109	37	0	0
	"B" 254	203	152	101	51	26	1	0	0	0	0	0
	"C" 495	459	423	387	351	315	279	243	207	171	135	99
	"D" 495	469	443	417	391	365	339	313	287	261	235	209
9FCG	9	7	6	4	2	1	0	0	0	0	0	0
	"A" 613	541	469	397	325	253	181	109	37	0	0	0
	"B" 203	152	101	51	26	1	0	0	0	0	0	0
	"C" 434	408	382	356	330	304	278	252	226	200	174	148
	"D" 434	408	382	356	330	304	278	252	226	200	174	148
8FCG	8	7	6	4	2	1	0	0	0	0	0	0
	"A" 541	469	397	325	253	181	109	37	0	0	0	0
	"B" 178	127	76	25	14	8	3	0	0	0	0	0
	"C" 403	377	351	325	299	273	247	221	195	169	143	117
	"D" 403	377	351	325	299	273	247	221	195	169	143	117
7FCG	7	6	4	2	1	0	0	0	0	0	0	0
	"A" 469	397	325	253	181	109	37	0	0	0	0	0
	"B" 127	76	25	14	8	3	0	0	0	0	0	0
	"C" 330	304	278	252	226	200	174	148	122	96	70	44
	"D" 330	304	278	252	226	200	174	148	122	96	70	44
6FCG	6	4	2	1	0	0	0	0	0	0	0	0
	"A" 397	325	253	181	109	37	0	0	0	0	0	0
	"B" 76	25	14	8	3	0	0	0	0	0	0	0
	"C" 253	227	201	175	149	123	97	71	45	19	0	0
	"D" 253	227	201	175	149	123	97	71	45	19	0	0



FCGSW and FCG 45MT & DL TABLE IN METRIC

WARRANTY

LIMITED LIFETIME WARRANTY

The Metal-Fab, Inc. 6 thru 36-inch diameter Model FCG "Corr/Guard II Double Wall" and FCGSW "Corruguard II Single-Wall" factory-built gas vent system (the products), when installed in accordance to manufacturer's instructions and when properly and regularly cleaned and maintained, are warranted by Metal-Fab, Inc. under normal use against defects in material or workmanship for as long as the original purchaser owns the vent system.

Refer to Metal-Fab Warranty form L2619 for complete information and claim procedures, exclusions and limitations. The entire warranty is available at: www.metal-fabcommercial.com

JOINT ASSEMBLY

6" – 36" Diameters

1. Apply continuous bead of sealant 1/4" wide to one flange.
2. Join to next section.
3. Fill the Flange Vee Band with sealant and install around Flanges.
4. Gently tap Vee Band with a soft head mallet while tightening band to assure tight seal.
5. Install casing closure band. (Seal if external to structure to prevent moisture infiltration)



SEALANT REQUIREMENTS

6" – 36" Diameters

P070 Sealant

Flue Diameter	Tubes / Joint	Joints / Tube
6"	0.20	5
8"	0.20	5
10"	0.20	5
12"	0.25	4
14"	0.25	4
16"	0.25	4
18"	0.33	3
20"	0.33	3
22"	0.33	3
24"	0.50	2
26"	0.50	2
28"	0.50	2
30"	0.67	1 1/2
32"	0.67	1 1/2
34"	0.67	1 1/2
36"	0.67	1 1/2



800-835-2830

P.O. BOX 1138 • WICHITA, KANSAS 67201

(316) 943-2351 • FAX (316) 771-4168

info@metal-fabinc.com • www.metal-fabcommercial.com