

CORR/GUARD II INSTALLATION INSTRUCTIONS

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SMALL DIAMETER CORR/GUARD & FLANGED CORR/GUARD II

PRESSURE RATED VENTING SYSTEM AL29-4C_® STAINLESS STEEL

CONDENSING APPLIANCES
CAT. II, III, IV APPLIANCES
FUME EXHAUST
3"(76mm)-36"(914mm) DIAMETERS

IMPORTANT: DO NOT INSTALL WITHOUT FIRST READING THESE INSTRUCTIONS VERY CAREFULLY.

- EXAMINE ALL COMPONENTS FOR POSSIBLE SHIPPING DAMAGE BEFORE INSTALLATION.
- PROPER JOINT ASSEMBLY IS ESSENTIAL FOR A SAFE INSTALLATION. FOLLOW THESE INSTRUCTIONS EXACTLY AS WRITTEN. CHECK SEVERENESS OF JOINTS UPON COMPLETION OF ASSEMBLY.
- THIS VENTING SYSTEM MUST BE FREE TO EXPAND AND CONTRACT. SUPPORT SYSTEM IN ACCORDANCE WITH THESE INSTRUCTIONS. CHECK FOR UNRESTRICTED 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.

METAL-FAB, INC. P.O. BOX 1138, WICHITA, KS 67201-1138

GENERAL

CORR/GUARD II VENTING SYSTEM INSTALLATION INSTRUCTIONS

Corr/Guard II is a special stainless steel venting system for gas-fired appliances listed as Cat. II, III & IV or in Canada, Type BH Gas Venting Systems per ULC-636, with rated operating temperature of 550° F (287° C). Corr/Guard II is rated for positive pressure of 10" (254mm) w.c. for 3" (76mm) diameter through 5" (127) diameter and 6" (152mm) w.c. for 6" (152mm) diameter through 36" (914mm) diameter. Metal-Fab, Inc. recommends the system be inspected once a year by a qualified service technician.

Venting system design may be limited by appliance performance. Consult appliance installation instructions to determine proper sizing and limitations such as maximum horizontal length and height, maximum number of elbows or offsets, connecting two or more appliances to a common venting system, and other limitations that may affect design and installation. Permits may be required before starting an installation. Installation is to be in accordance with local building code requirements and National Codes: USA – NFPA 54 ANSI-Z223.1 or NFPA 211. In Canada – CAN/CGA-B149.1 or CAN/CGA-B149.2 Propane Installation Code as applicable. It is the responsibility of the installer to contact local building and fire officials concerning any installation restrictions and/or inspection requirements that may apply.

Corr/Guard II is to be installed in accordance with these installation instructions and those of the appliance manufacturer. For conditions and applicable restrictions not specifically mentioned herein, contact building or fire officials having jurisdiction in your area. The following is a guide to assist a professional installer:

- Proper operation of the venting system and appliance is dependent on the use of all parts specified by Metal-Fab for use in the particular installation. System performance may be affected if the proper assembly of all required parts is not accomplished.
- Refer to appliance's instructions to determine proper sizing and connection of the venting system to the appliance.
- Corr/Guard Model CG & FCG double wall vent may be used with Model CGSW & FCGSW single wall vent within the same vent system.
- Tee sections should only be used in conjunction with a drain on appliances tested for use with a drain, or if allowed by the appliance manufacturer for multiple appliance connections.
- If required by the appliance manufacturer, a drain fitting must be located as close as possible to the appliance flue outlet. Unless a drain fitting is supplied with the appliance, install only a Corr/Guard II Drain Fitting.
- More than one Category II, III or IV appliance may not be connected into the same vent system, unless the appliance manufacturer specifically approved such a system and the appliances are designed for multiple venting. Cat. II, III or IV appliances MAY NOT share any part of their vent system with a natural draft appliance.
- Check the joints and seams for gas tightness when using the venting system with a Cat. III or Cat. IV appliance.
- 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.
- Corr/Guard shall not be routed into, through, or within any other vent, such as an existing masonry or factory-built chimney flue that is connected to another appliance.
- WARNING! Do not place or install insulation in any required clearance spaces surrounding the venting system.
- Enclosure of exterior mounted venting systems below the roof line is recommended to limit condensation and protect from mechanical damage.

When the Corr/Guard vent system is installed, the system must be pressure checked for tightness. Repair any joint leaks by disassembling and resealing following the guidelines in the Joint Assembly section of these instructions. Replace any defective component.

The Corr/Guard ventilation system, manufactured by Metal-Fab, Inc. is constructed to exacting standards. The proper operation of this vent system is dependant on the use of correct components, proper sizing, quality of installation, and guidelines and limitations expressed by the appliance manufacturer.

(TABLE 1) CLEARANCE TO COMBUSTIBLES					
Corr/Guard SINGLE WALL (CGSW & FCGSW)					
Rated Operating		Minimum Clearance		Minimum Clearance	
Temperatures		Enclosed		Unenclosed	
Pipe Dia.	Temp.	Horiz.	Vert.	Horiz.	Vert.
Single Wall 3"&4" (76mm - 102mm) (CGSW)	400°F (204°C) 480°F (249°C) 550°F (288°C)	8" (203mm) 8" (203mm) N/A	4" (102mm) 4" (102mm) N/A	1" (25mm) 2" (51mm) 2" (51mm)	1" (25mm) 2" (51mm) 2" (51mm)
Single Wall 5" (127mm) (CGSW)	400°F (204°C) 480°F (249°C) 550°F (288°C)	N/A N/A N/A	6" (152mm) 6" (152mm) N/A	1" (25mm) 2" (51mm) 2" (51mm)	1" (25mm) 2" (51mm) 2" (51mm)
Single Wall 6"-12" (152mm - 305mm) (FCGSW)	480°F (249°C) 550°F (288°C)	N/A N/A	N/A N/A	2" (51mm) 2" (51mm)	2" (51mm) 2" (51mm)
Single Wall 14"-18" (356mm - 457mm) (FCGSW)	480°F (249°C) 550°F (288°C)	N/A N/A	N/A N/A	3" (153mm) 3" (153mm)	3" (153mm) 3" (153mm)
Single Wall 20"-24" (508mm - 610mm) (FCGSW)	480°F (249°C) 550°F (288°C)	N/A N/A	N/A N/A	4" (102mm) 4" (102mm)	4" (102mm) 4" (102mm)
Single Wall 26"-30" (660mm - 762mm) (FCGSW)	480°F (249°C) 550°F (288°C)	N/A N/A	N/A N/A	5" (127mm) 5" (127mm)	5" (127mm) 5" (127mm)
Single Wall 32"-36" (813mm - 914mm) (FCGSW)	480°F (249°C) 550°F (288°C)	N/A N/A	N/A N/A	6" (152mm) 6" (152mm)	6" (152mm) 6" (152mm)

(TABLE1) CLEARANCE TO COMBUSTIBLES						
Corr/Guard DOUBLE WALL (CG & FCG)						
Rated Operating		Minimum	Minimum Clearance		Minimum Clearance	
Temperatures		Enclosed		Unenclosed		
Pipe Dia.	Temp.	Horiz.	Vert.	Horiz.	Vert.	
Double Wall 3"-5" (76mm - 127mm) (CG)	300°F (149°C) 480°F (249°C) 550°F (288°C)	3" (76mm) 6" (152mm) N/A	1" (25mm) 1" (25mm) N/A	1" (25mm) 1" (25mm) 1" (25mm)	1" (25mm) 1" (25mm) 1" (25mm)	
Double Wall 6"-12" (152mm - 305mm) (FCG)	480°F (249°C) 550°F (288°C)	N/A N/A	1" (25mm) N/A	1" (25mm) 1" (25mm)	1" (25mm) 1" (25mm)	
Double Wall 14"-18" (356mm - 457mm) (FCG)	480°F (249°C) 550°F (288°C)	N/A N/A	1" (25mm) N/A	2" (51mm) 2" (51mm)	1" (25mm) 2" (51mm)	
Double Wall 20"-24" (508mm - 610mm) (FCG)	480°F (249°C) 550°F (288°C)	N/A N/A	1" (25mm) N/A	3" (76mm) 3" (76mm)	1" (25mm) 3" (76mm)	
Double Wall 26"-30" (660mm - 762mm) (FCG)	480°F (249°C) 550°F (288°C)	N/A N/A	2" (51mm) N/A	4" (102mm) 4" (102mm)	2" (51mm) 4" (102mm)	
Double Wall 32"-36" (813mm - 914mm) (FCG)	480°F (249°C) 550°F (288°C)	N/A N/A	2" (51mm) N/A	5" (127mm) 5" (127mm)	2" (51mm) 5" (127mm)	

JOINT ASSEMBLY-SINGLE WALL 3"- 5" (76mm - 127mm) DIAMETER CGSW

Each Corr/Guard vent component contains a seal gasket on the female end of the vent joint and locking tabs. Mechanical fastening of the joint is automatic and requires no tools. Visually check the gasket for proper location within the pipe bead during assembly or flue gases could leak, resulting in carbon monoxide poisoning. Assembly of joints is shown below:

- Insert the male end of the vent pipe into the adjoining female vent section until the bead of the male joint stops at the edge of the female joint.
- When properly inserted to the fullest extent, the integral locking tabs will snap into place, securing the joint Before proceeding, verify that all locking tabs are engaged for each joint assembly.

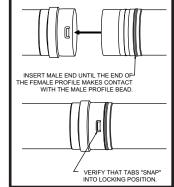


FIG. 1

JOINT ASSEMBLY-DOUBLE WALL 3"- 5" (76mm - 127mm) DIAMETER CG

Connections between vent and fittings are male/female type. The inner duct is sealed with an integral seal gasket and the joint is mechanically secured via the overlapping outer wall of the double wall pipe.

Joints are assembled per the following steps:

- 1. Before assembly, observe that the seal gasket is located within the female inner pipe joint. Locate next pipe or fitting with male inner pipe joint and insert to begin engagement of inner pipe joint.
- 2. As the joint further engages, align the male and female ends of the outer wall of each pipe so that they begin to engage as the pipes are further pushed together.
- 3. Pipe joint is fully engaged when the female end of the outer pipe comes in contact (or is at least within 3/16" 5mm) to the base of the bead on the male end of the adjoining vent pipe.

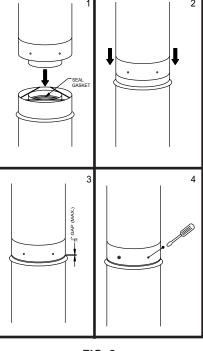


FIG. 2

4. When possible look within the pipe assembly to verify that no sign of seal gasket is showing. Complete the joint assembly by securing the joint using #8 x 1/2" sheet metal screws (3 per joint) at each pre-punched hole on the female end of each joint.

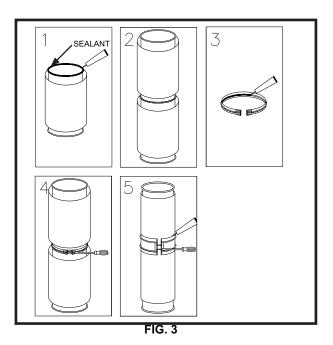
WARNING: SHEET METAL SCREWS ARE FOR DOUBLE WALL OUTER CASING ONLY. NEVER USE SCREWS, RIVETS OR OTHER FASTENERS TO PENETRATE THE INNER FLUE WALL.

JOINT ASSEMBLY-LARGE DIAMETER 6"- 36" (152mm - 914mm) DIAMETER FCGSW & FCG

Connection Tips For Sealant Applications (See FIG. 3):

The Model Corr/Guard II joint sealing system is designed for quick and easy installation:

- Apply a continuous bead of P070 sealant to one of the flanges to be joined.
- Join the two flanged ends of the pipe sections. compressing the P070 sealant just applied.
- 3. Fill the channel of Flange Band with P070 Sealant.
- 4. Install the flange band around the flanges and firmly tighten.
- 5. Secure the outer casing with the casing closure band.



INSTALLATION

HORIZONTAL SUPPORTS

Use non-combustible hanger straps or Half Angle Rings (HAR). See **Table 2** to support the vent system from ceiling joints or other solid structures (See **FIG. 4**).

WARNING: DO NOT PUNCTURE VENT SYSTEM.

Vent must not sag or dip, providing areas for condensate to collect.

TABLE 2

SUPPORT	PIPE DIA. / MODEL	DISTANCE BETWEEN SUPPORTS
HORIZONTAL RUNS	3"-5" (76mm-125mm) CG & CGSW	7' (2.13 m)
	6"-24" (152mm-610mm) FCG & FCGSW	7' (2.13 m)
	26"-36" (660mm-914mm) FCG & FCGSW	10' 6" (2.3m)
	3"-5" (76mm-125mm) CG & CGSW	7' (2.13 m)
HORIZONTAL BETWEEN ELBOWS	6"-24" (152mm-610mm) FCG & FCGSW	7' (2.13 m)
	26"-36" (660mm-914mm) FCG & FCGSW	10' 6" (2.3m)

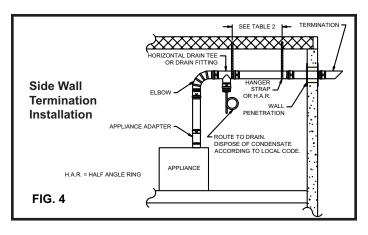


TABLE 4 - Vertical Stack Lift Chart

FCGSW			FCG		
Diameter	Height (ft.)		Diameter	Height (ft.)	
6" (152)	229 (70m)	Γ	6" (152)	75 (23m)	
7" (178)	215 (66m)		8" (203)	70 (21m)	
8" (203)	200 (61m)		8" (203)	70 (21m)	
9" (229)	190 (58m)		8" (203)	60 (18m)	
10" (254)	175 (53m)		10" (254)	60 (18m)	
12" (305)	145 (44m)		12" (305)	50 (15m)	
14" (356)	120 (37m)		14" (356)	50 (15m)	
16" (406)	120 (37m)		16" (406)	50 (15m)	
18" (457)	105 (32m)		18" (457)	45 (14m)	
20" (508)	105 (32m)		20" (508)	45 (14m)	
22" (559)	95 (29m)		22" (559)	40 (12m)	
24" (610)	90 (27m)		24" (610)	40 (12m)	

Note: This chart indicates maximum height that can be suspended from overhead to lift and install.

PLATE SUPPORT ASSEMBLY

The Plate Support Assembly is designed to provide support to vertical and horizontal sections. The Plate Support must be attached to the building structure or support with rigid structural members. Proper clearance to combustible construction must be maintained.

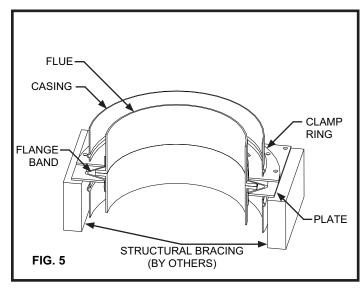
For maximum support, attach the entire perimeter of the Plate Support Assembly to the structural framing. (See FIG. 5). Structural members are supplied by the installer. The Flange Band is placed between the Support Plate and the Clamp Rings and aligned with notches for the Flange Band Clamps. Align holes of the support plate and Clamp Rings and assemble together using the hardware provided.

VERTICAL SUPPORTS

- Unless installed in a fire rated shaft, a fire stop / vertical support is required when penetrating floors and ceilings.
- Vertical supports are to be used after each transition to vertical. Refer to TABLE 3 for support methods and heights.

TABLE 3

SUPPORT METHODS	PIPE SIZE/MODEL	MAX. HEIGHT	
PLATE SUPPORTS	3"-5" (76mm-610mm) CG/CGSW 6"-24" (152mm-610mm) FCG 6"-12" (152mm-305mm) FCGSW 14" - 24" (356mm-610mm) FCGSW 26" - 36" (660mm-914mm) FCG/FCGSW	30' (9.1m) 30' (9.1m) 30' (9.1m) 20' (6.1m) 100' (305 m)	
WALL BAND	6"-16" (152mm-406mm) FCG 6"-12" (152mm-305mm) FCGSW	8' INTERIOR 8' INTERIOR	
ROOF SUPPORTS (PLATE SUPPORT AT ROOF FOR FREE STANDING)	3"-5" (76mm-127mm) CG/CGSW 6"-24" (152mm-610mm) FCG/FCGSW 26"-36" (660mm-914mm) FCG/FCGSW	5' (1.5m) 5' (1.5m) 10' (3.0m)	
WALL SUPPORTS	3"-5" (76mm-127mm) CG/CGSW 6"-24" (152mm-610mm) FCG/FCGSW 26"-36" (660mm-914mm) FCGSW/FCG	6' (1.8m) EXTERIOR 30' (9.1m) INTERIOR 8' (2.4m) EXTERIOR 30' (9.1m) INTERIOR 40' (12.2m) INTERIOR GUIDE EVERY 10' (3.0m) FOR EXTERIOR	
STACK SUPPORT	6"-24" (152mm-610mm) CGSW/FCGSW 6"-12" (152mm-305mm) FCGSW 14" - 24" (356mm-610mm) FCGSW 26" - 36" (660mm-914mm) FCG/FCGSW	30' (9.1m) 30' (9.1m) 20' (6.1m) 100' (305 m)	
NOTE: Wall Hanger 3"-5" CG/CGSW alignment only, not a vertical support.			

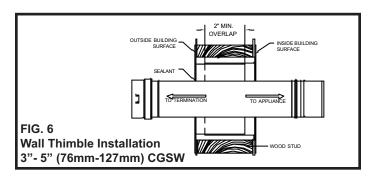


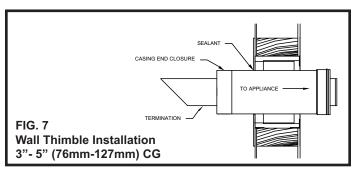
WALL PENETRATION

- 1. Prior to installation, determine proper location of wall thimble so that a minimum slope of 1/4" (6mm) per foot is maintained in the horizontal section of vent to ensure proper flow of condensation.
- 2. Prepare the wall by cutting a square opening per **TABLE 5**. (Opening size adequate to insert Wall Thimble components)
- 3. Install the Wall Thimble by inserting the larger of the two parts on the appliance (interior) side.
- 4. Next, apply a bead of sealant around the edges of the exterior (smaller of the two parts) Wall Thimble component. Then install this part of the Wall Thimble by inserting the smaller collar into the other component from the previous step.

NOTE: The two horizontal cylinders of the Thimble must engage a minimum of two inches.

- 5. Fasten both sides of the Wall Thimble using screws or nails.
- Once the Thimble is installed, Corr/Guard II vent pipe can be inserted into the Thimble. For 3" - 5" diameter Corr/Guard II insert the male end first. (See FIG. 6, 7 & 8).
- Assemble Corr/Guard II vent from the Wall Thimble section back to the appliance.
- 8. Install a horizontal termination to complete the assembly.
- Once assembly is completed, apply a bead of high-temp sealant around the pipe and the exterior plate of the Thimble to protect against weather.





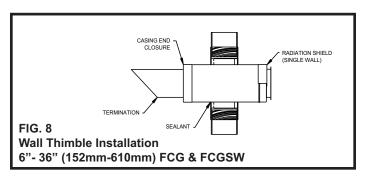


TABLE 5

PIPE DIAMETER	FRAMING DIMENSIONS (MINIMUM)
3"-5" (76mm-127mm)	(PIPE DIA.+5") x (PIPE DIA.+5")
CGSW (SINGLE WALL)	(PIPE DIA.+127mm) x (PIPE DIA.+127mm)
3"-5" (76mm-127mm)	(PIPE DIA. + 5") X (PIPE DIA. + 5")
CG (DOUBLE WALL)	(PIPE DIA.+127mm) x (PIPE DIA.+127mm)
6"-24" (152mm-610mm)	(PIPE DIA. + 6") X (PIPE DIA. + 6")
FCGSW (SINGLE WALL)	(PIPE DIA.+152mm) x (PIPE DIA.+152mm)
6"-24" (152mm-610mm)	(PIPE DIA. + 6") X (PIPE DIA. + 6")
FCG (DOUBLE WALL)	(PIPE DIA.+152mm) x (PIPE DIA.+152mm)
26"-36" (660mm-914mm)	(PIPE DIA. + 8") X (PIPE DIA. + 8")
FCGSW (SINGLE WALL)	(PIPE DIA.+203mm) x (PIPE DIA.+203mm)
26"-36" (660mm-914mm)	(PIPE DIA. + 8") X (PIPE DIA. + 8")
FCG (DOUBLE WALL)	(PIPE DIA.+203mm) x (PIPE DIA.+203mm)

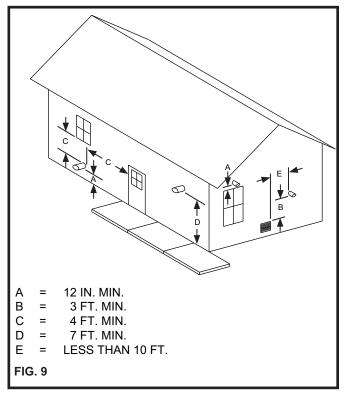
HORIZONTAL TERMINATIONS

A venting system that exits through a side wall shall:

- Terminate not less than 12 inches (305 mm) above the ground.
- Be located above the snow line in geographical areas where snow accumulates.
- Not be located in traffic areas such as walkways unless the venting system is at least 7 feet (2.1 m) above the ground (See FIG. 9).

When an appliance incorporates a combustion air inlet system, the venting system shall terminate:

- 6 feet (1.8m) or more from the combustion air intake of any appliance.
- More than 3 feet (0.9m) from any other building opening, gas utility meter, service regulator or the like.
- Less distance is permitted if specified in the appliance's installation instructions.

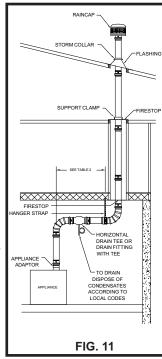


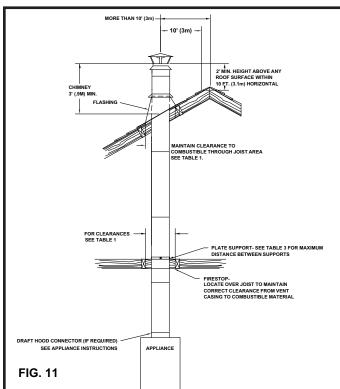
VERTICAL TERMINATIONS

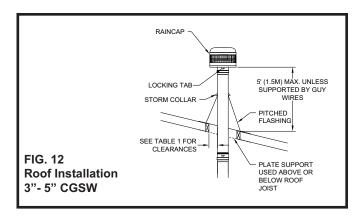
- Enclose residential exterior vent systems below the roof line or use double wall Corr/Guard II (CG/FCG) to limit condensation due to cool down of flue gases.
- When assembling 3"-5" Diameter Corr/Guard vent, always align "UP" arrow (per UL Label) away from the appliance.

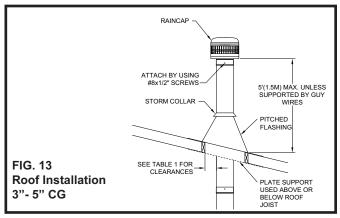
NOTE: Flanged Corr/Guard II UL Label will not have an "UP" Arrow.

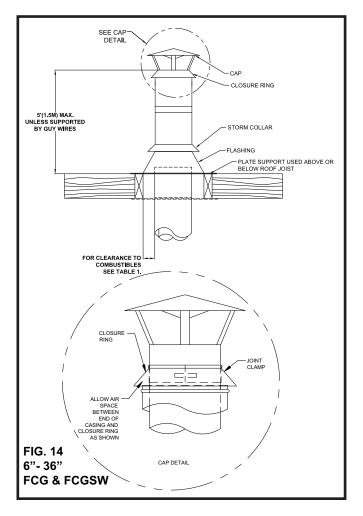
- The total equivalent length from the appliance outlet to the termination shall not exceed maximum length specified by the appliance manufacturer's installation instructions.
- Vertical terminations must terminate no less than 2' (0.61m) above the roof or any wall or vertical structure closer than 8' (2.4m). A vent cap or other equivalent termination is required to keep rain or debris out of the vent.
- Starting at the appliance outlet, attach the first section or appliance adaptor. (See FIG. 10 & 11 for typical installation.)
- Continue assembly of pipe until nearing a ceiling penetration. Locate and cut hole in floor and ceilings that will be penetrated. Hole size must maintain minimum listed clearances per TABLE 1.
- Install a firestop support when penetrating the ceiling to support the vertical run of the vent system.
- When installing a firestop in the attic, the firestop or support plate is located on top of the joist to prevent insulation from falling into the joist.
- Continue with the vent penetrating the roof. At the roof, the opening must maintain a minimum of clearance to combustibles as specified in these instructions and on the labeled vent product.
- Above the roof, a flashing and storm collar are required. Use high temperature sealant to seal the storm collar to the vent so that rain will not penetrate the roof opening (See FIG. 12, 13 & 14).











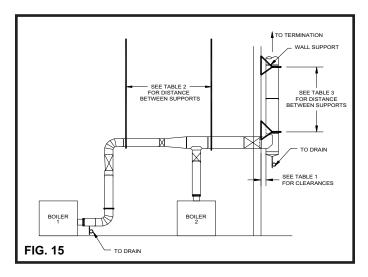
EXTERIOR INSTALLATION

Enclose exterior vent systems below the roof line or use double wall Corr/Guard II (CG/FCG) to limit condensation due to cool down of flue gases.

- There may be installations where Corr/Guard II vent shall run vertically - exterior to the building and a wall band support is needed. A wall support (WS) is used to secure the vent system to a wall while maintaining the minimum clearance to combustible construction (See FIG. 15).
- Wall supports must be securely fastened to a solid member of the building using appropriate fasteners for various building materials such as wood, steel siding or masonry.
- Exterior mounted wall supports are to be vertically spaced per TABLE 3 on PAGE 4.
- 4. Wall supports are designed to be fastened to the vent by means of clamping externally to the vent for 3"-24" diameters and attaching to the flange for 26"-36" diameters. No screws are to puncture the vent wall.
- When system is installed outdoors, the upper side (upper half of horizontal position) of the closure band bead should be sealed with clear silicone sealant to make the casing water tight.

WARNING: DO NOT RIVET OR SCREW SUPPORTS TO THE VENT OR OTHERWISE PUNCTURE THE VENT WALL.

WARNING: DO NOT PLACE ANY TYPE OF INSULATION IN ANY REQUIRED CLEARANCE SPACES SURROUNDING THE VENT SYSTEM.



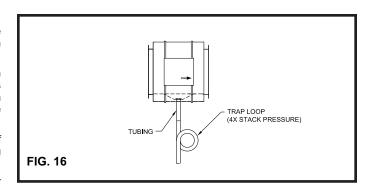
CONDENSATE REMOVAL

All sections of a ventilation system shall have a minimum upward slope of 1/4":12" for CAT II, CAT III and CAT IV appliances or downward slope for CAT III & CAT IV appliances. Condensate Drains must be provided at any low point within the venting system.

If an appliance does not supply a condensate drain and one is required per the appliance manufacturer's instructions or local codes, install a drain fitting in the horizontal conduit, as close as possible to the appliance vent collar

WARNING: NEVER INSTALL A DRAIN IN A SYSTEM WITH AN APPLIANCE NOT INVESTIGATED FOR USE WITH A CONDENSATE DRAIN.

Flanged Corr/Guard II drain fittings contain a drain tube that should be located at the bottom of the vent or fitting when installed properly. A drain hose must be attached to the tube and a trap loop must be formed into the drain hose. The trap loop should be at least four times the appliance's rated stack pressure in inches of water column or sized for 6" (153mm) w.c. max. vent pressure, which ever is less (See FIG. 16).



VARIABLE LENGTH

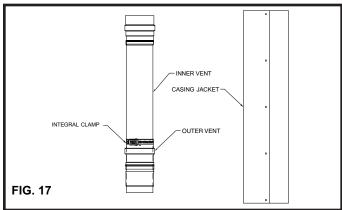
For installations that require non-standard vent lengths, Corr/Guard II Variable Length vent sections may be used. The vent section consists of an inner conduit that slip fits into the outer conduit, a compression band, or integral clamp and an outer casing (for double wall only).

3"- 5" (76mm-127mm) CG & CGSW

To install the VL vent section, first install the inner pipe section by connecting the male section to the adjoining double or single wall vent pipe. Insert male section until the bead of the joint stops at the edge of the female end of the vent section.

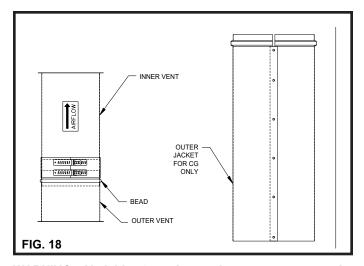
Next, expand the length of the inner pipe to the necessary length and tighten the integral clamping band using a hex drive or screw driver. The VL's are adjustable from 7 1/2" to 22" (191mm to 559mm). Continue with the next section of vent, making sure to fully join the inner pipe of the vent from the female end of the VL vent.

When installing double wall, finish the VL vent assembly by installing the outer casing wall around the VL inner pipe section. Secure the casing by installing #8x1/2" sheet metal screws at prepunched holes (See FIG. 17).



6"- 36" (152mm-914mm) FCG & FCGSW

To install the Variable Length, first apply a heavy bead of P070 sealant into the outer vent bead. Slide the inner vent into the outer vent. Locate the Variable Length into position and adjust to the proper length. Follow joint assembly details on PAGE 3. Apply a bead of P070 sealant at the joint of inner and outer vent and attach the compression band. The VL-10 is adjustable from 7" to 10" (179mm-254mm). The VL-22 is adjustable from 7" to 22" (179mm-559mm). If the inner vent for the VL-22 is too long to fit into the adjacent vent component, trim back to fit. When installing double wall vent system, cut the outer jacket to fit between the mating vent and install using sheet metal screws (provided). (See FIG 18).



WARNING: Variable Length sections are not to be subjected to vertical force loads. Use appropriate support methods.

MAINTENANCE INSTRUCTIONS

As with all vents, the Corr/Guard II vent system should be inspected at least annually for the presence of deposits or debris and any accumulation should be removed. The vent system should also be inspected at regular periods for signs of leakage of condensate or combustion products at any joints.

If the vent system incorporates a drain hose from either an inline fitting or from a drain tee, the hose must be inspected periodically to ensure that water is in the trap loop. If a proper trap loop is not maintained, exhaust from the connected appliances may accumulate in the building area.

Where the duct is installed outside the building, the aluminized steel outer casing must be primed and painted. The painted surface should be maintained regularly to prevent possible deterioration of the casing surface. The use of stainless steel outer casing negates the need for painting.

IMPORTANT: The listing for this product is void if components other than those supplied as Listed Components by Metal-Fab, Inc. are used. All warranties, stated or implied, are void if this product and the appliances to which it is connected are not installed in accordance with their respective instructions and local code requirements.



P.O. Box 1138 • WICHITA, KANSAS 67201 (316)943-2351 • Fax (316)943-2717 8