

**A MAJOR CAUSE OF VENT
RELATED FIRES IS FAILURE
TO MAINTAIN
REQUIRED CLEARANCES (AIR
SPACES) TO COMBUSTIBLE
MATERIALS.**

**IT IS OF THE UTMOST
IMPORTANCE THAT THIS
DOUBLE WALL VENT SYSTEM
BE INSTALLED ONLY IN
ACCORDANCE
WITH THESE INSTRUCTIONS.**

**PLEASE READ ALL INSTRUCTIONS
BEFORE BEGINNING YOUR
INSTALLATION.
FAILURE TO INSTALL THIS SYSTEM
IN ACCORDANCE WITH THESE
INSTRUCTIONS WILL VOID THE
CONDITIONS OF CERTIFICATION
AND THE MANUFACTURER'S
WARRANTY.**



Installer: It is of the utmost importance that these instructions are left with the homeowner.

Homeowner: Keep these instructions and maintenance guide in a safe place for future reference.

**Tested to Standards
CAN/ULC-S609
and
UL 641**

Model PL Vent has been tested and listed by Underwriters Laboratories, Inc. in accordance with UL641, the Standard for Type L Low Temperature Venting Systems, in addition to certain other applicable requirements from UL103, the Standard for Residential type and Building Heating Appliance Chimneys. It is tested and listed to the Canadian Standard CAN/ULC-S609 for Low Temperature Vents Type L (gas and oil) and type PL (wood pellet) in which the maximum continuous flue gas outlet temperatures does not exceed 570° F (300° C).

PLANNING AND LAYOUT

1. The minimum airspace clearance required between the vent and combustible material is 25mm (1") or as established by factory supplied spacers and base support assembly (see Framing Dimensions - Table 1). Do not fill this space with insulation or any other material unless it is with a material specifically approved by Selkirk for this purpose. The air space is required for the safe operation of the vent.

2. Model PL installed in accordance with these instructions comply with national Safety Standards such as NFPA 211 in the US and CSA-B365 in Canada. When Model PL is used for venting gas or oil appliances refer to NFPA 54 for gas and NFPA 31 for oil. In Canada refer to CSA-B139 for oil and CSA-B149 for gas.

3. Contact your local building authority and/or fire officials for permits, restrictions and installation inspections. You may also wish to contact your home insurance representative.

4. If you choose to have your product professionally installed, we recommend these products be installed by professionals who are certified in Canada by WETT (Wood Energy Technology Transfer) or in the U. S. by NFI (National Fireplace Institute).

5. Do not mix and match with other manufacturer's products. Use only PL listed components.

6. In certain instances more than one gas or oil fired appliance may be connected to the same vent system. Be sure to follow the appliance manufacturer's recommendations and local fire and building code requirements if this is planned. UNDER NO CIRCUMSTANCES should a pellet burning appliance be connected into the same vent system as any other type of appliance.

NOTE: The Pellet Pipe from one or more appliances may be installed vertically inside a dormant masonry flue, or dormant certified chimney, or a dormant vent, provided each appliance is equipped with its own individual vent installed in accordance with the manufacturer's requirements.

7. When locating your appliance, consider the building structure to ensure the vent will not interfere with any ceiling joists, roof rafters, wall studs, water pipes or electrical wiring. It may be easier to relocate the appliance than to rework the building structure.

8. The intended installation location of PL is for interior use or exterior above a roof line or exterior enclosed.

9. At the level where the vent penetrates the air/vapour barrier, special attention is required. Seal the vapour barrier to the

firestop or ceiling support or wall thimble using an appropriate caulking compound as per the requirement of local authorities.

10. The installation of Model PL shall facilitate cleanout and removal of parts for examination, repair or maintenance.

11. When locating your appliance, consider the building structure to ensure the vent will not interfere with any ceiling joists, roof rafters, wall studs, water pipes or electrical wiring. It may be easier to relocate the appliance than to rework the building structure.

12. Read the appliance installation instructions for any further layout restrictions.

13. A Black Ceiling Support or Support Assembly will support up to 15.2m (50 ft) of vent.

14. The rain cap of a vertical (through the roof) installation must be at least 900mm (36") above the roof line when installed in the US and in Canada. See Figure 3.

15. If the Vent extends five feet or more above the roof penetration, Roof Brace Poles and a Roof Brace Band must be used to provide lateral support.

16. A vent system enclosure is also recommended for any exterior systems and portions extending through unheated areas. This enclosure is helpful in reducing internal condensation, residual buildup from products of combustion and metal deterioration. Also the enclosure, by protecting the vent from cold outdoor temperatures, may improve draft and appliance operation. At the upper end of an outdoor enclosure the vent system should be finished off with a PL Flashing, Storm Collar and Rain Cap as described elsewhere in these instructions.

Regardless of the benefits of the exterior enclosure, better vent and appliance operation will be obtained if the vent is located entirely inside the heated portion of the building (except of course for the part above the roof).





17. A vent must be enclosed in any inhabited space above the appliance. In a building other than a one or two family dwelling, the enclosure material shall have a fire resistance rating at least equal to the adjacent floor or ceiling material.

18. An Attic Insulation Shield must be installed where the vent passes into an attic space. It is designed to keep insulation materials or debris from coming into contact with the vent. The height of the Attic Insulation Shield is to meet the insulation level requirement of the National Building Code. This will prevent any contact between the insulation and the vent when loose fill insulation such as cellulose is used. This will also prevent contact with insulation added in the future.

NOTE - CELLULOSE type insulation may be composed of old newspapers and other cellulose materials which are very susceptible to ignition of a fire.

Where height restrictions will not permit the use of the Attic Insulation Shield, it is permissible to construct an enclosure with a 1" air space clearance to the outer pipe all the way to the underside of the roof deck. In this application you need to install a Firestop Spacer on the ceiling side.

CERTIFICATION LABELS

 LISTED MH7647	TYPE L LOW TEMPERATURE VENTING SYSTEM also LISTED as TYPE B GAS VENT ÉVÉNT À TEMPÉRATURE BASE TYPE "L" aussi HOMOLOGUÉ comme ÉVÉNT À GAZ TYPE "B"	MODEL / MODÈLE: DFS TYPE L FOR GAS OR OIL TYPE L POUR GAZ ET HUILE UL 641 and CAN/ULC-S609
	Connect only to oil or gas burning appliances suitable for use with Type L Vents or to gas burning appliances listed for use with Type B Gas Vent. DFS is for connection to appliances producing flue gas not exceeding 570 DEG. F (299 DEG. C) for L Vent installations and not exceeding 480 DEG. F (249 DEG. C) for B Vent installations.	 UP HAUT
Maintain a minimum 3 inch air space clearance to combustibles when installing as Type L Vent and 1 inch clearance to combustibles when installing as Type B Gas Vent. Use in accordance with Selkirk Installation and Maintenance Instructions.		Garder un minimum d'espaces d'air de 3 po (75mm) de tout combustible avec une installation d'événement de Type L et de 1 po (25mm) avec une installation d'événement de Type B. Installer et utiliser selon les directives d'installation et entretien de Selkirk.
For interior use below roof line or exterior use above roof line.		Pour utilisation intérieur sous la ligne du toit ou extérieur au dessus de la ligne du toit.
Part # : No. de pièces : LABEL SAMPLE	 1 23456 78901 2	
 GRAND RAPIDS, MI	08/17/18	12 REVO 1890410335

 LISTED MH7647	TYPE L FOR GAS OR OIL COMPONENT PART UL 641 and CAN/ULC-S609	ÉVÉNT DE TYPE L POUR GAZ OU À L'HUILE PIÈCE COMPOSANTE UL 641 et CAN/ULC-S609
	MODEL / MODÈLE DFS	
INSTALL AND USE IN ACCORDANCE WITH SELKIRK INSTALLATION AND MAINTENANCE INSTRUCTIONS.	INSTALLER ET UTILISER CONFORMÉMENT SEULEMENT SELON LE MANUEL D'INSTALLATION ET D'ENTRETIEN DE SELKIRK.	
PART NUMBER: NO. DE PIÈCE: LABEL SAMPLE	 1 23456 78901 2	
 GRAND RAPIDS, MI	08/16/18	12 REVO 1890400135

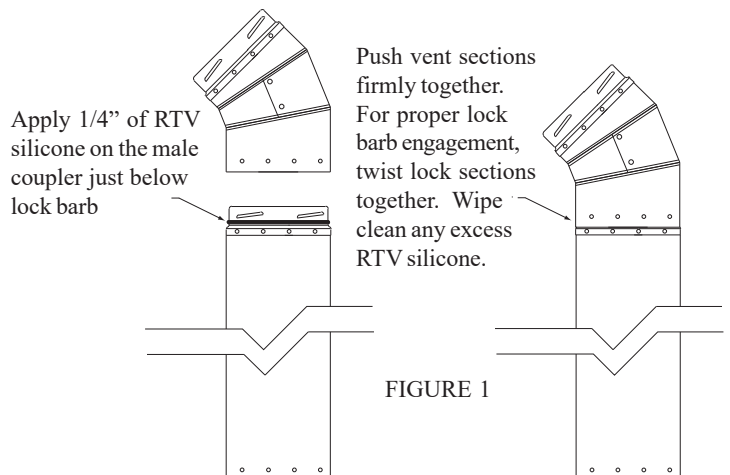
19. Most pellet burning appliances have powered exhausts and may be suitable for horizontal venting. However, a vertical vent will generally outperform a horizontal vent in exhausting flue gases.

20. To ensure a good gas tight seal for positive pressure venting the application of an RTV silicone to the male collar of the joint is recommended (see Figure 1).

1 INTERIOR VENT INSTALLATION - Steps 1.1 to 1.17

1.1 General VENT layout is shown in Figures 2a, 2b and 3.

1.2 Position the appliance in its desired location according to the appliance installation instructions.



SELKIRK CANADA WILL NOT BE HELD LIABLE FOR ANY DAMAGES OR LOSSES ARISING OUT OF IMPROPER CARE, HANDLING, INSTALLATION OR USE OF THIS VENT.

TABLE 1 - FRAMING DIMENSIONS		
	3" Dia.	4" Dia.
Black Ceiling Support (BCS & TCS))	254mm x 254mm 10 x 10	279mm x 279mm 11 x 11
Support Assembly (SA)	254mm x 254mm 10 x 10	279mm x 279mm 11 x 11
Firestop (FS) and Attic Insulation Shield (AIS)	254mm x 254mm 10 x 10	279mm x 279mm 11 x 11
Thimble (THD, THDS)	254mm x 254mm 10 x 10	279mm x 279mm 11 x 11

1.3 Install a PIPE ADAPTOR or UNIVERSAL PIPE ADAPTOR onto the appliance's flue collar.

1.4 If the flue collar exits the appliance horizontally, a 90 degree ELBOW or TEE section must be used to turn the VENT vertical.

1.5 Use a plumb line to determine the location of VENT penetration at the ceiling.

1.6 Cut a hole in the ceiling and frame to the appropriate opening size (see Table 1). Framing material shall be the same as that of adjacent joist material.

1.7 Install the BLACK CEILING SUPPORT (BCS) from below the joist level and fasten with 4 x 1.5" spiral nails or screws (see Figure 2a).

1.8 Alternatively, a SUPPORT ASSEMBLY (SA) may be used in place of the BCS. The SUPPORT ASSEMBLY fits into the ceiling opening from below and is fastened to joists with 4 x 1.5" spiral nails or screws (see Figure 3).

1.9 Insert the first VENT section through the SUPPORT and tighten the clamp screw. Additionally fasten the vent with four screws (max 1/2" long) through the support collar and into the vent skin.

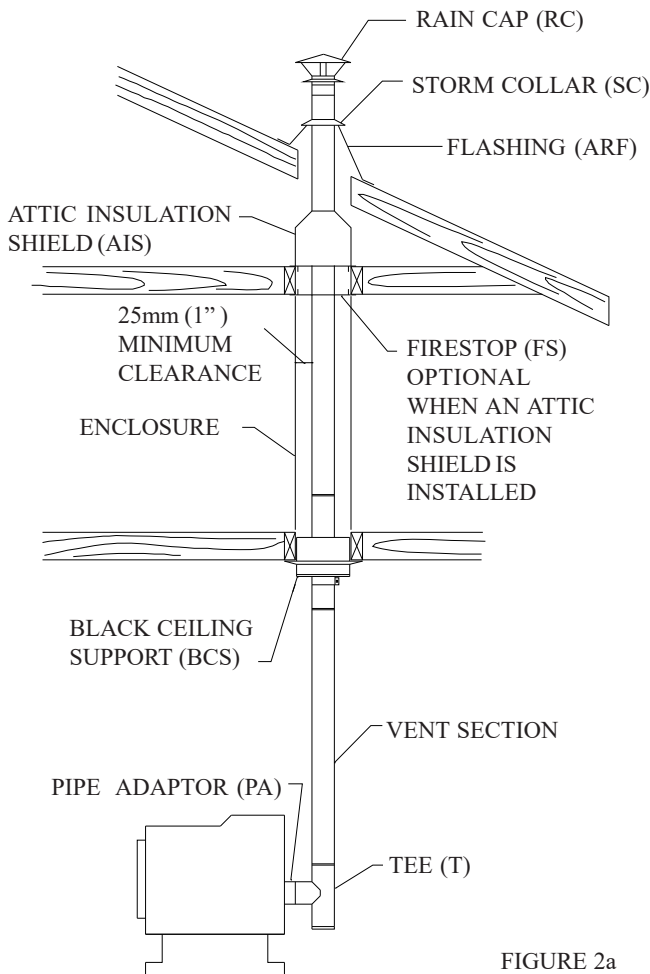


FIGURE 2a

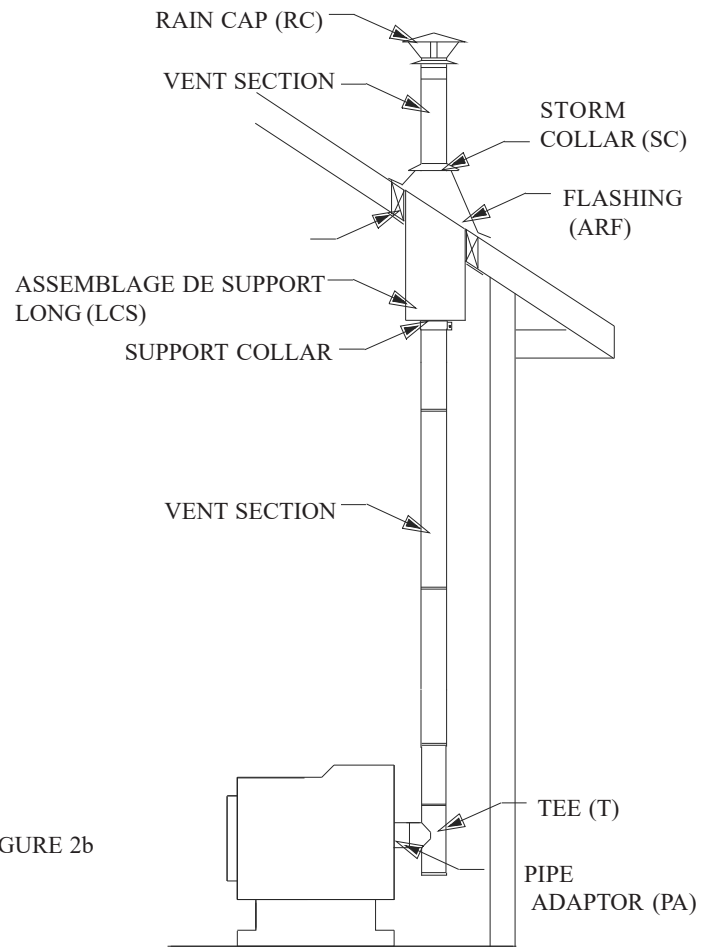


FIGURE 2b

LONG CEILING SUPPORT (LCS) - FIGURE 2B

For the installation of the Long Ceiling Support in a cathedral ceiling application, follow the following instructions:

- A. Drop a plumb line to the center of the appliance's flue outlet and mark this center point on the ceiling.
- B. Mark a cutting line to the appropriate opening size as seen in Table 1 around the center point.
- C. Cut and frame the opening in the roof. The sides of this opening must be measured on the vertical.
- D. Place the Long Ceiling Support (LCS) in the opening. Using a level, make sure the support is vertical. If the support extend above the roof line, cut it flush with the top of the roof.

E. The bottom of the Long Ceiling Support (LCS) must be a minimum of 3" lower than the finished ceiling at the lowest side of the opening.

F. Fasten the LONG CEILING SUPPORT (LCS) to the framed opening using 12 x 1.5" (3 per sides) spiral nails or screws.

G. Insert the first VENT section through the LCS and tighten the clamp screw. Additionally fasten the vent with four screws (max 1/2" long) through the support collar and into the vent skin.

H. Adjust the over-lapping U-Shaped Trim pieces and secure to the framing members using 6 x 1-1/4" black wood screws.

I. Continue with Steps 1.14 through 1.17.

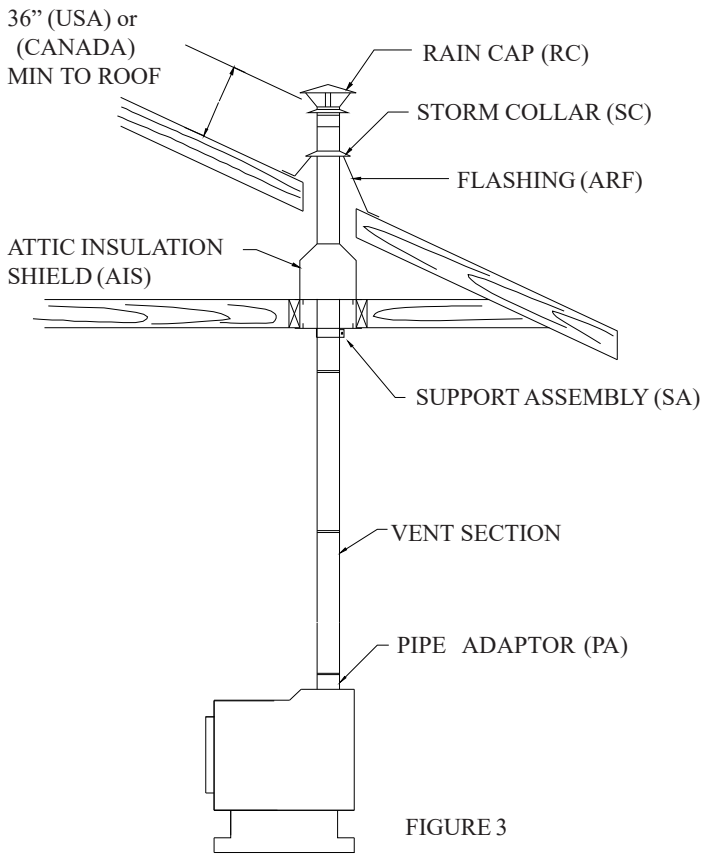


FIGURE 3

1.10 Install the next VENT section(s) above the first. Apply 1/4" bead of RTV as per Figure 1. Twist lock sections together with a clock wise turn. Before twisting, push vent sections firmly together for proper lock barb engagement. Enough twisting force must be applied to ensure that the collars will compress the gasket material. Optional curing of the joints can be accomplished with the use of 2 sheet metal screws (max 1/2" long).

1.11 FIRESTOPS are required where the Vent penetrates a floor or ceiling. Cut a hole of the appropriate size in the ceiling/floor and install the FIRESTOP from above or below the joist. Fasten the FIRESTOP with nails through the corners as per Figure 2. An Attic Insulation Shield is also available where the venting passes into an attic space and is installed from above. When an Attic Insulation Shield is installed the Firestop installed from below is then optional as per Figure 2a.

1.12 Where the vent system penetrates the air/vapour barrier, special attention is required. Seal the vapour barrier to the firestop or ceiling support, long ceiling support or wall thimble

using an appropriate caulking compound as per the requirement of local authorities.

1.13 Elbows may be used to offset the VENT when it becomes necessary in order to clear a joist or rafter. Keep use of elbows to a minimum as they reduce draft capacity of a vent.

1.14 Continue the VENT up through the roof line.

1.15 Slide the FLASHING over the Vent until it sits on the roof line. Slip the upper side of the FLASHING base under the roof shingles and lay the lower side over the shingles. Nail the FLASHING to the roof with a minimum of 8 roofing nails. Seal the FLASHING base with an appropriate roofing sealant. Ensure that the required 25mm (1") clearance is maintained to the vent.

1.16 Slide the STORM COLLAR down the Vent until it sits on the FLASHING. Apply a bead of silicone around the top of the STORM COLLAR.

1.17 Set the RAIN CAP onto the top VENT section and twist lock it to the top VENT section (see Figure 3).

2 HORIZONTAL INSTALLATION

2.1 General VENT layout is shown in Figures 4 and 7.

In selecting the location for the appliance and the vent, it is necessary to take into account the rules of CAN/ULC-S609 (Canada) and NFPA 211(USA).

2.2 When installed in the USA:

In the absence of overriding local requirements, use the following National Fire Protection Association Standard 211 guidelines for distances from the exit termination to doors, windows, air inlets, etc.:

The exit terminal of a mechanical draft system, other than a direct vent appliance (sealed combustion system appliance), the Termination shall be located in accordance with the following:

A. Not less than 4 ft. (0.91 m) above any forced air inlet located within 10 ft. (3 m);

B. Not less than 4 ft. (1.2 m) below, 4 ft. (1.2 m) horizontally from, or 1 ft. (305 mm) above any door, window or gravity inlet into any building;

C. Not less than 2 ft. (0.6 m) from adjacent building and not less than 7 ft. (2.1 m) above grade when located adjacent to public walkways.

2.3 When installed in Canada:

The Termination of a side-wall vent shall be located to avoid personal burn injury, fire hazard, and interference with or damage to adjacent properties. The following restrictions applies:

A. Vent Length must not exceed 1200 mm (48") or the maximum length specified by the manufacturer;

B. The minimum and maximum equivalent length of the through-the-wall venting system shall be in accordance with the certified appliance manufacturer's instructions;

C. Within 1.8m (6 ft) of a mechanical air supply inlet to a building;

D. Above a gas meter/regulator within 900 mm (36") horizontally of the vertical centre of the regulator;

E. Within 1.8m (6 ft) of a gas service regulator vent outlet or within 1 m (3 ft) of an oil tank vent or an oil tank fill inlet;

- F. Less than 300 mm (12") above grade level or any adjacent surface that might support snow, ice, or debris;
- G. Within 1 m (3 ft) of a building opening (windows and doors) or air inlet of another appliance;
- H. Not less than 600 mm (24 ft) from adjacent building and not less than 7 ft. (2.1m) above grade when located adjacent to public walkways, lane, street, right-of-way, stairway, or landing;
- I. Directly above a paved sidewalk or paved driveway that is located between two single-family dwellings and serves both dwellings;
- J. Within 1.8 m (6 ft) of the property boundary;
- K. Within 1 m (3 ft) horizontally of the vertical centre line of a gas service regulator;
- L. In any enclosed or semi-enclosed areas such as a carport, garage, attic, crawlspace, narrow walkway, closely fenced area, under a sundeck or porch, or any location that can build up a concentration of fumes such as stairwells, covered breezeway, etc.;
- M. Underneath a veranda, porch or deck, where the veranda, porch or deck is not fully open on a minimum 2 sides beneath the floor and the distance measured between the top of the vent to the underside of the veranda, porch or deck is greater than 300 mm (12");
- N. Less than 1200 mm (48") beside or below any door or window that may be opened, or less than 450 mm (18") if outside fresh air is installed;
- O. Less than 300 mm (12") above any door or window that may be opened, or less than 230 mm (9") if outside fresh air is installed;
- P. Less than 600 mm (24") below any ventilated eave or roof overhang, or less than 450 mm (18") below any unventilated eave or roof overhang;
- S. Less than 300 mm (12") to an outside corner, and less than 300 mm (12") to an inside corner of a combustible wall;
- T. Guards shall be provided around the termination of the side-wall venting system to prevent contact and physical damage.

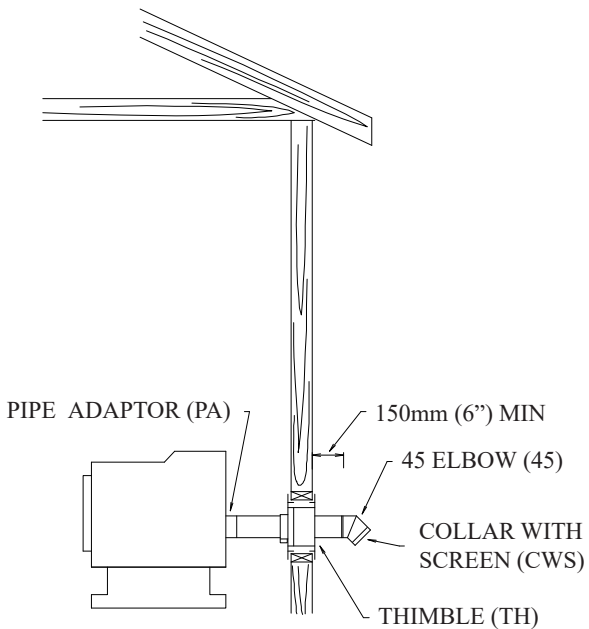


FIGURE 4

- 2.4 Position the appliance in the desired location and according to the appliance installation instructions.
- 2.5 Install a PIPE ADAPTOR or a UNIVERSAL PIPE ADAPTOR onto the appliance's flue collar.
- 2.6 Cut a hole in the building wall of the appropriate size for the VENT (see Table 1).

2.7 A WALL THIMBLE must be used when the VENT passes through a combustible wall. The THIMBLE splits into two sections. Install the section with the support clamp from inside the building. Install the other section from outside the building. Fasten the THIMBLE to the wall with nails or screws at the THIMBLE's corners. The WALL THIMBLE is to be used on walls ranging in width from 5" - 9". If a wall 9" to 18" (max) in thickness is to be passed through, it is permissible to field fabricate a WALL THIMBLE EXTENSION of galvanized sheet metal of 26 gauge (see FIGURE 5). The EXTENSION can be trimmed so that it overlaps each of the THIMBLE sleeves by at least 75mm (1"). It is to be attached to the female end (non crimped) of the THIMBLE with three (3) sheet metal screws. Proceed with the installation as described above.

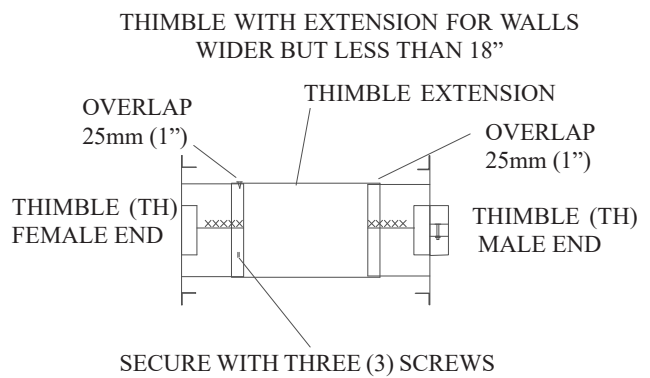


FIGURE 5

- 2.8 Insert the first VENT section through the THIMBLE and twist connect its female end to the PIPE ADAPTOR on the appliance.
- 2.9 Use additional VENT sections as necessary. The horizontal VENT must extend at least 152 mm (6") outside of the combustible wall.
- 2.10 Tighten the THIMBLE's clamp screw to secure the VENT.
- 2.11 There are two alternative vent terminations. A 45 degree ELBOW may be used together with a COLLAR WITH SCREEN as shown in Figure 4, or as shown in section 4 and Figure 7.

3 EXTERIOR VERTICAL INSTALLATION

- 3.1 Follow instructions 2.1 to 2.7 (see Figure 6).
- 3.2 Install a TEE section to the vent penetrating the wall.
- 3.3 Run the VENT vertically up the wall, ensuring to maintain a minimum of 25 mm (1") clearance between the wall and VENT.

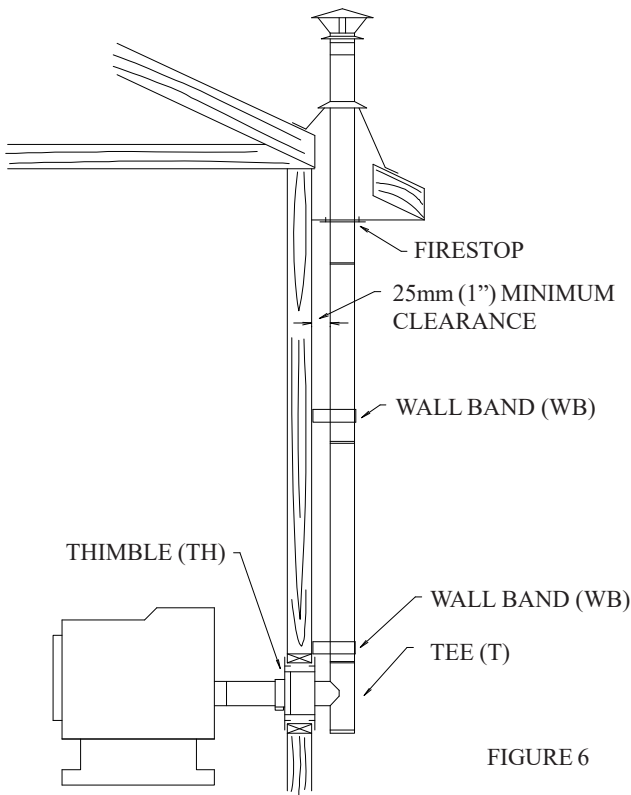


FIGURE 6

3.4 A WALL BAND must be installed just above the TEE and at least every 1.8 m (6 feet) of VENT rise.

3.5 The VENT may be run up through a roof overhang. In this case, use a FLASHING, STORM COLLAR, and RAIN CAP as in instructions 1.15 to 1.17.

4 EXTERIOR - SHORT RISE INSTALLATION

4.1 Follow instructions 3.1 to 3.4.

4.2 After a rise of at least 900mm (3ft) (consult appliance manufacturer's installation instructions for minimum vent rise), install a 90 DEGREE ELBOW aimed out from the building wall.

4.3 Attach a 45 DEGREE ELBOW to the 90 DEGREE ELBOW, aiming the second elbow down toward the ground. Terminate the vent with a COLLAR WITH SCREEN fastened to the 45 DEGREE ELBOW (see Figure 7).

4.4 This configuration will help prevent blockage of vent by snow drifts. Also the vertical rise will improve drafting and allow for easier cleaning of the TEE by removal of the cleanout.

4.5 Appliance manufacturers will recommend a minimum vent rise, check your appliance installation instructions for recommendations and/or requirements.

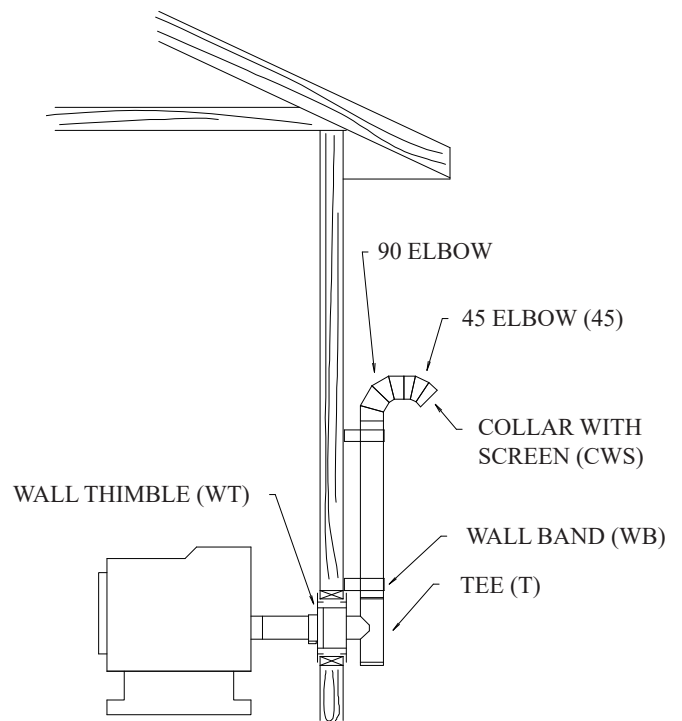


FIGURE 7

5 PAINTING

To prolong the life and appearance of the outer casing and other parts of Model PL Vent System located outdoors, use proper painting procedure at time of installation. Remove oil and dirt with a solvent such as a degreaser. Paint first with a good quality zinc primer or other primer recommended for use on galvalume steel. Next apply an appropriate finish coat. Similar considerations apply for painting of internal components, for aesthetic purposes. Ordinary house paints applied directly to outer casing may not adhere well and do not prevent under film corrosion which leads to paint loosening and peeling. Be sure to use a good primer undercoat and an appropriate finish coat.

6 MAINTENANCE REQUIREMENTS

Refer to the appliance manufacturer's maintenance instructions for recommendations relative to required maintenance of your appliance.

-Model PL vent system requires periodic inspection and cleaning with an appropriately sized brush which will not scratch the inside surface of the flue. DO NOT USE chemical cleaners to clean your venting system.

Frequency of necessary vent system cleaning will vary with the appliance, vent system configuration and climate. Certain wood pellet burning appliances may give off more fine dust than others.

-In any case it is recommended that the complete assembly be inspected and cleaned (if any buildup has occurred) at the beginning of each heating season and at least monthly thereafter to determine if ash or soot has built up. When a maximum of 1/4" thickness of build-up has accumulated, it needs to be removed to reduce the risk of a chimney fire.

-TO INSPECT AND CLEAN . . . Remove the termination cap or/and the Tee Cap by prying the Lock-Tab with a flathead screwdriver and pulling until it disengages from the vent. Inspect system. If necessary clean by running a brush through the system several times in each direction. NOTE - Be sure that tee and termination caps are reinstalled and secured when Inspection/Cleaning is completed and before the system is put back in use.

-IN CASE OF FIRE . . . If a fire occurred within the vent system, de-energize the appliance, close all draft controls, evacuate the premises and call the Fire Department. Do not use the appliance or vent system until they have been inspected by a qualified individual and declared suitable for further use.

INSTALLATION INFORMATION

Leave with homeowner. Homeowner: Keep in a safe place for future reference.

PRODUCT INFO

VENT MODEL : **Ultimate Pellet Pipe**

FLUE SIZE _____

TOTAL HEIGHT _____

INSIDE INSTALLATION OUTSIDE INSTALLATION

CONNECTED TO (type of appliance):

- WOOD PELLET APPLIANCE
- WOOD PELLET BOILER
- WOOD PELLET INSERT
- WOOD PELLET FURNACE
- OTHER (specify) _____

LOCATION OF APPLIANCE:

- BASEMENT
- MAIN FLOOR
- OTHER (specify) _____

INSTALLATION DATE: _____

DEALER INFO

DEALER NAME: _____

Address: _____

City: _____

Province/State: _____

TECHNICIAN INFO

TECHNICIAN NAME: _____

Address: _____

City: _____

Province/State: _____