SHERWOOD INDUSTRIES IS AN ENVIRONMENTALLY RESPONSIBLE COMPANY. THIS MANUAL IS PRINTED ON RECYCLED PAPER.

PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

DV62

BY: SHERWOOD INDUSTRIES LTD

Westgate

LUXURY FIREPLACES

TECHNICAL MANUAL

INSTALLER:
Leave this manual with the appliance.

CONSUMER:
Retain this manual for future reference.



WHAT TO DO IF YOU SMELL GAS

- **Open windows/extinguish any open flame.**
- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

FOR YOUR SAFETY: Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an after-market permanently located, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

c LC us

Massachusetts installations (Warning): This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Other Massachusetts code requirements: Flexible connector must not be longer than 36in., a shut off valve must be installed; only direct vent sealed combustion products are approved for bedrooms/bathrooms. A carbon monoxide detector is required in all rooms containing gas fired direct vent appliances. The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert.

SAFETY PRECAUTIONS

FOR SAFE INSTALLATION AND OPERATION OF YOUR "WESTGATE" HEATER, PLEASE CAREFULLY READ THE FOLLOWING INFORMATION:

- All Westgate gas-fired appliances must be installed in accordance with their instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to commencing the installation.
- **NOTE:** Failure to follow these instructions could cause a malfunction of the fireplace, which could result in death, serious bodily injury, and/or property damage.
- Failure to follow these instructions may also void your fire insurance and/or warranty.

GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative the control compartments, burners and circulating air passageways of the appliance be kept clean.
- Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.

- Young children should be carefully supervised when they are in the same room as the appliance, Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Clothing or other flammable materials should not be placed on or near the appliance.

FOR YOUR SAFETY

- Installation and service must be performed by a qualified installer, service agency or gas supplier.
- This installation must conform to local codes or, in the absence of local codes, to the current CAN/CSA-B149.1 Natural Gas and Propane Installation Code (Canada) or National Fuel Gas Code ANSI Z223.1.2 (USA)
- To prevent injury, do not allow anyone who is unfamiliar with the fireplace to operate it.

- **To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to re-light the fireplace.**
- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapours.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/ decorations.
- Due to the paint curing on the fireplace, odor and slight smoking will likely be noticed when the fireplace is first used. Open a window until the smoking stops.

Always connect this gas fireplace to a vent system and vent to the outside of the building envelope. Never vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of adequate height to provide sufficient draft. Inspect the venting system annually for blockage and signs of deterioration.

WARNING: Failure to position the parts in accordance with the diagrams in this booklet, or failure to use only parts specifically approved with this appliance, may result in property damage or personal injury.

WARNING: Do not operate with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

- Never use solid fuels such as wood, paper, cardboard, coal, or any flammable liquids, etc., in this appliance.
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control or gas control systems that have been under water.
- Do not abuse the glass by striking it or slamming the door shut.

WARNING



HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

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Codes And Approvals

DIRECT VENT ONLY: This type is identified by the prefix DV. This appliance draws all of its air for combustion from outside the dwelling, through a specially designed vent pipe system.

In the USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000 (610 m) feet is to be reduced 4% for each 1000 feet (305 m) above sea level. Refer also to National Fuel Gas Code, ANSI Z223.1/ NFPA 54, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

In Canada: When the appliance is installed at elevations above 4500 feet (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000 feet (305 m). Refer also to CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

- This appliance has been tested by LabTest Certification Inc. and found to comply with the established VENTED GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (DV62)

TESTED TO: ANSI Z21.88-2009/CSA 2.33-2009 VENTED GAS FIREPLACE HEATERS

CAN/CGA 2.17-M91 GAS FIRED APPLIANCES FOR HIGH ALTITUDES

CSA P.4.1-R2009 TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY

This Westgate DV62 Fireplace:

- Has been certified for use only with natural gas.
- Is not for use with solid fuels.
- Is approved for bedroom or bed sitting room. (**IN CANADA**: must be installed with a listed wall thermostat. **IN USA**: see current ANSI Z223.1 for installation instructions.)
- Must be installed in accordance with local codes. If none exist, use current installation code CAN/CSA-B149.1 Natural Gas and Propane Installation Code in Canada or ANSI Z223.1/NFPA 54 in the USA.
- Must be properly connected to an approved venting system and not connected to a chimney flue serving a separate solid-fuel burning appliance.
- The flow of combustion and ventilation air not be obstructed.

IMPORTANT NOTICE (Regarding first fire up): When the unit is turned on for the first time, it should be turned onto high without the fan on for the first 4 hours. This will cure the paint, logs, gasket material and other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn, turn the unit off including the pilot, let the unit get cold then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local WESTGATE dealer.

NATIONAL FIREPLACE INSTITUTE®

NFI

CERTIFIED

www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

SPECIFICATIONS

DIMENSIONS:

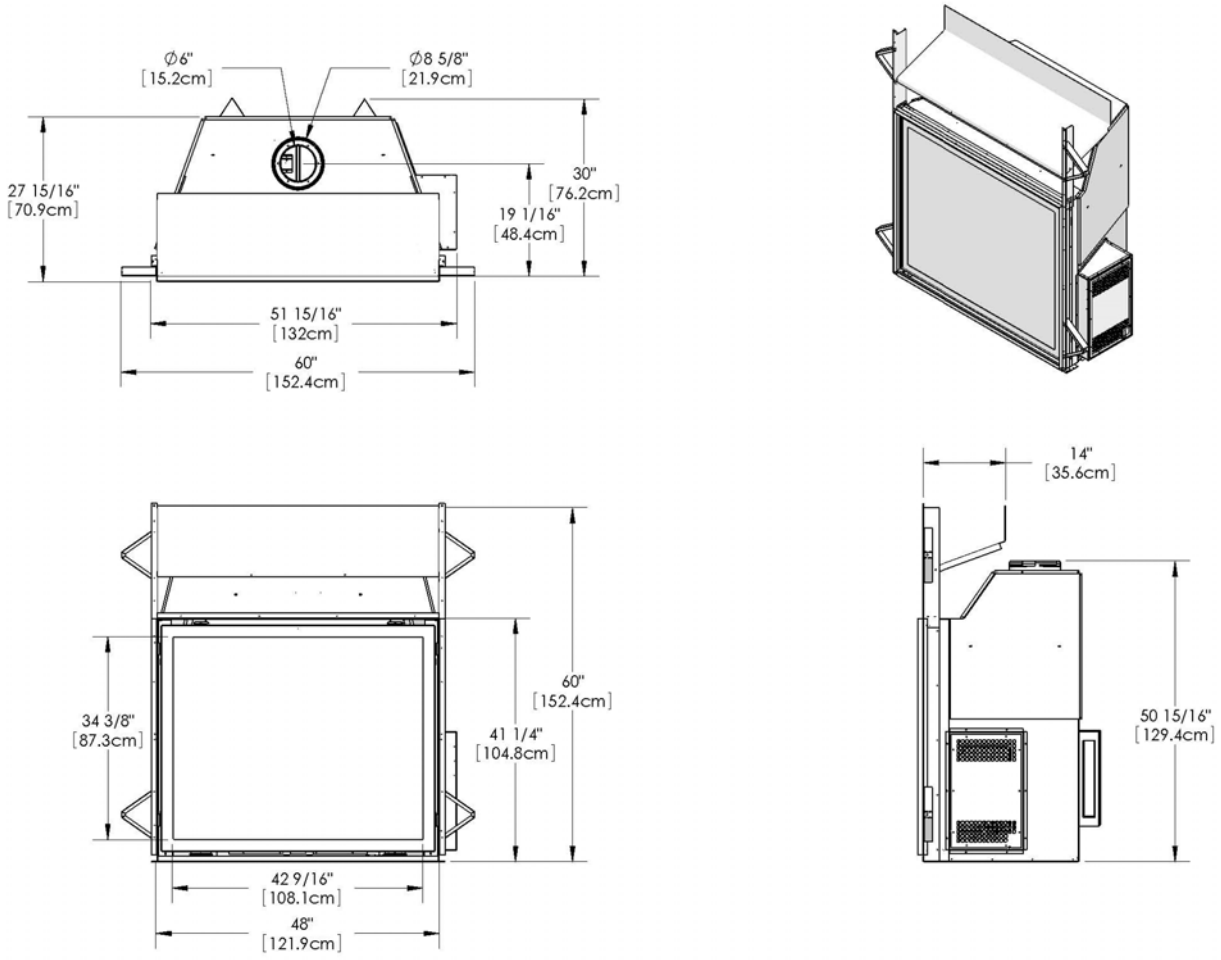


Figure 1. Dimensions of the Firebox.

RATING LABEL LOCATION:

The Rating and Lighting instruction label is located below the door frame, underneath the firebox attached to a chain. To access the label, slide the plate forward out from under the firebox. Always return it when finished.

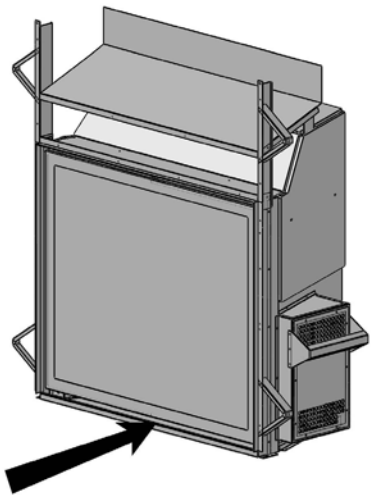


Figure 2. Rating/Lighting Label Location.

RATING LABEL:


DO NOT REMOVE THIS LABEL / N'ENLEVEZ PAS CETTE ETIQUETTE

DV62

VENTED GAS FIREPLACE HEATER ENVIRO MODEL
FOYER AU GAZ A EVACUATION MODELE ENVIRO DV62

c LC US

LT# 9710

NAT: (Gaz naturel)

TESTED TO / TESTÉE SELON LES NORMES:
ANSI Z21.86-2009/CSA 2.32-2009 VENTED GAS FIREPLACE HEATERS / FOYER AU GAZ EVACUATION.
CAN/CGA 2.17-M91 GAS FIRED APPLIANCES FOR HIGH ALTITUDES / LES APPAREILS BRULANT GAZ POUR UTILISATION EN HAUTES ALTITUDES, CAN/CSA-P.4.1-09 (R2009) TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY / LA METHODE D'ESSAI POUR MESURER L'EFFICACITE DE CHEMINEE ANNUELLE

INPUT (ENTRÉE): NAT: 0-4500 FT (1372 M) MAX. 61,500 BTU (18.02 KW-h)
MIN. 20,000 BTU (5.86 KW-h)

MANIFOLD PRESSURE: (PRESSION D'ADMISSION)
NAT: 3.5 in. WC (0.87kPa) / 1.6 in. WC (0.40kPa)
MINIMUM GAS SUPPLY PRESSURE: (PRESSION MINIMALE D'ALIMENTATION DE GAZ PERMISE)
NAT: 5 in. Wc (1.24kPa)
ORIFICE SIZE: (DIMENSIONS DE L'ORIFICE)
NAT: Left # 40 DMS Right # 39 DMS
PILOT ORIFICE SIZE: (DIMENSIONS DE PILOTER L'ORIFICE)
NAT: #62 DMS

ELECTRICAL RATING:(EXIGENCES ÉLECTRIQUES)
120 volts AC 60 hz / Less than 8 Amperes
CLEARANCES TO COMBUSTIBLES: (DISTANCE OBLIGATOIRE DES COMBUSTIBLES)
Stove side (Côté de poêle): 0 inches (0cm) to Standoffs. Back (Arrière): 0 inches (0cm) to Standoffs. Ceiling from bottom of unit (Du fond d'unité au Plafond): 90" inches (228cm), From fireplace frame to side wall (Du flonie de la cheminée au mur latéral): 0" (0 cm) from Standoffs, From base of the unit to shelf, header, or 12" (30.5cm) mantel (De la base de l'unité à une étagère, un en-tête, ou un 12" manteau de cheminée): 62" (157.5cm)
VENT PIPE CLEARANCES:(ESPACES LIBRES DE VENTILATION) See manufacturer's listing, label and installation instructions. Verifiez l'identification, l'etiquette et les instructions d'installation du fabricant. This appliance must be properly connected to a venting system in accordance with the manufacture's installation instructions. Cet appareil doit être convenablement connecté à un système donner vent conformément aux instructions d'installation du fabricant.
VENTED GAS FIREPLACE HEATER - NOT FOR USE WITH SOLID FUELS. MAY BE INSTALLED IN BEDROOM OR BEDSITTING ROOM (IN CANADA with a listed wall thermostat). THIS APPLIANCE MUST BE PROPERLY CONNECTED TO A VENTING SYSTEM. ONLY FOR DIRECT DISCHARGE WITHOUT DUCT CONNECTION. This appliance must be installed as per manufacturers installation instructions and in accordance with local codes if any. If none exist, use current installation code CAN/CSA B149.1 in Canada or ANSI Z223.1/NFPA 54 in the USA. This vented gas fireplace is not for use with air filters. FOR USE WITH GLASS DOORS CERTIFIED WITH THE APPLIANCE ONLY. This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used. Sections of the venting system have not been installed. WARNING: Do not operate the appliance until all sections have been assembled and installed in accordance with the manufacturers instructions.
FOYER AU GAZ A EVACUATION - NE PAS EMPLOYER AVEC DES COMBUSTIBLES SOLIDES. Cet appareil peut être installé dans une chambre à coucher ou un studio. Cet appareil doit être branché correctement à un système de conduits. Uniquement pour l'échappement direct sans raccord de conduit. Cet appareil doit être installé selon les directives d'installation du manufacturier et selon les codes locaux, s'il y a lieu. Autrement, employez le code d'installation en vigueur au Canada CAN/CSA B149.1. Ne pas utiliser de filtre à air avec ce foyer au gaz à evacuation. POUR L'USAGE AVEC PORTES VITREES A CERTIFIE AVEC L'APPAREIL SEULEMENT. Cet appareil doit etre utilise uniquement avec le type de gaz indique sur la plaque. Cet appareil ne peut etre converti a d'autres gaz sauf si une trousse de conversion certifee est utilisee. ADVERTISSEMENT: Ne pas utiliser l'appareil tant que toutes les sections n'ont pas ete assemblees et installees selon les instructions du fabricant.

MANUFACTURED BY (FABRIQUE PAR): SHERWOOD INDUSTRIES LTD. 6792 OLDFIELD RD. SAANICHTON, BC, CANADA

DUE TO HIGH SURFACE TEMPERATURES KEEP CHILDREN, CLOTHING, AND FURNITURE AWAY
DUES AUX TEMPERATURES ELEVEES, GARDEZ LES ENFANTS, LES VETEMENT ET LES MEUBLES ELOIGNES

DATE OF MANUFACTURE: DATE DE FABRICATION:

J F M A M J J A S O N D 2009 2010 2011 2012

Figure 3. Rating Label.

Planning Your Installation

Introduction:

This section of the technical manual is for the use of qualified technicians only. Fireplace placement, hearths, facings, mantles, and venting terminations will be covered, as well as the gas and electric systems. There are several installation safety guidelines that must be adhered to. Please carefully read the safety precautions at the front of this manual.

Warning: Clearances must be sufficient to allow access for maintenance and service.

If installing a Power Vent Kit (50-1970) refer to the instructions included with the kits to aid in your planning.

Non-Combustible Material Zone:

This installation guide will show you many options for installing your new DV62. Some options include external chases, internal chases, rock facing and corner installations. No matter what direction your installation takes, this illustration shows an area where combustible building products may NOT go. This illustration applies to any and all installations for the DV62 and should be used as the first reference before any others. Failure to comply with this requirement can lead to elevated operating temperatures, degradation of materials or even result in fire. If you are un-clear about any details contained here, consult with your retailer prior to installation.

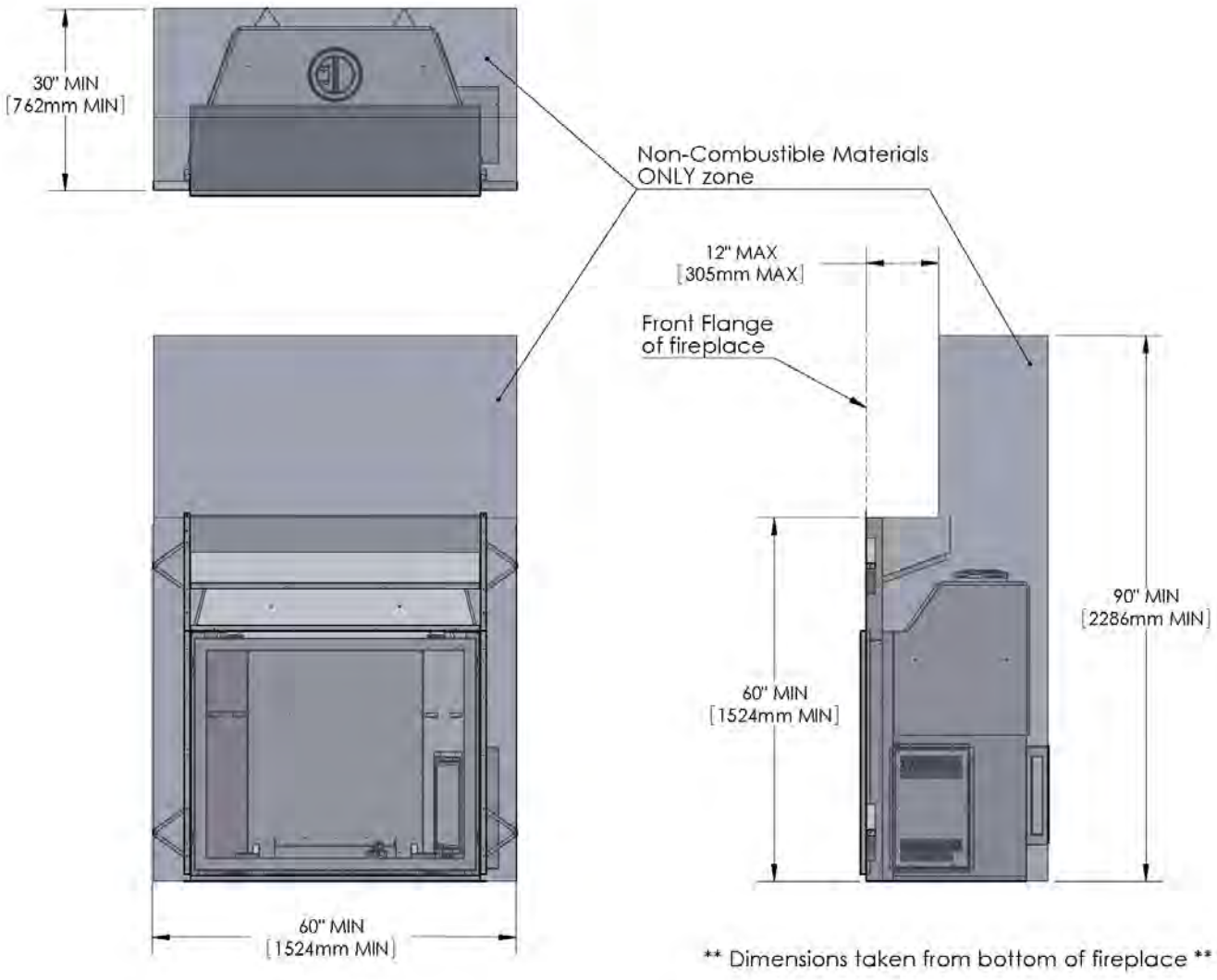


Figure 4. Non-Combustible Material Zone.

TYPICAL FRAMING - INTERNAL CHASE:

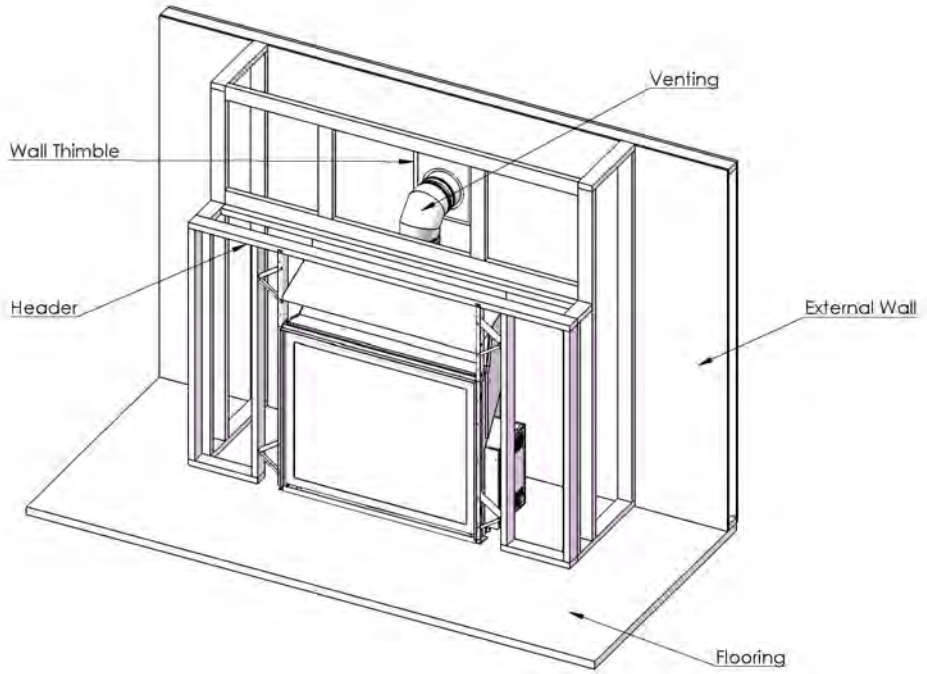


Figure 5. Typical Framing for Internal Chase - General.

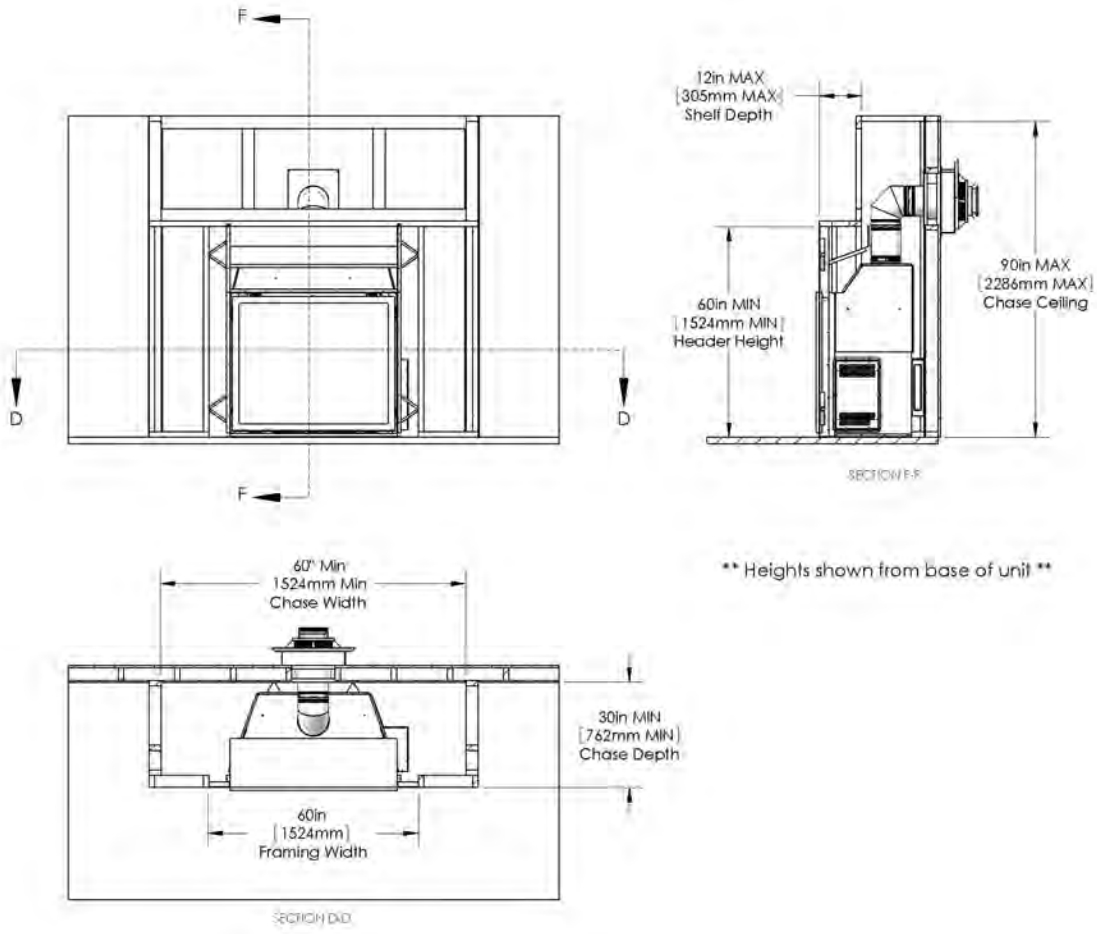


Figure 6. Typical Framing for Internal Chase - Detailed.

TYPICAL FRAMING - EXTERNAL CHASE:

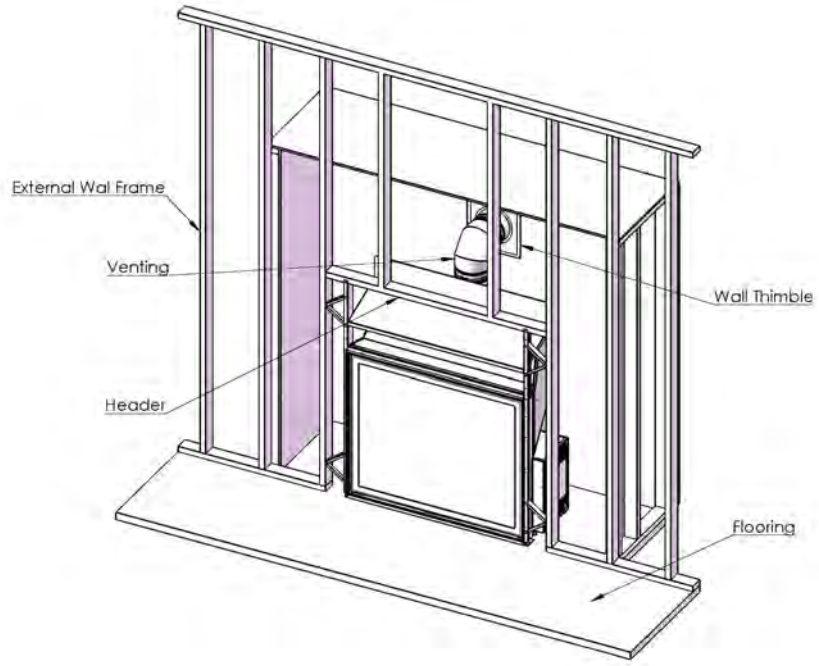


Figure 7. Typical Framing for External Chase - General.

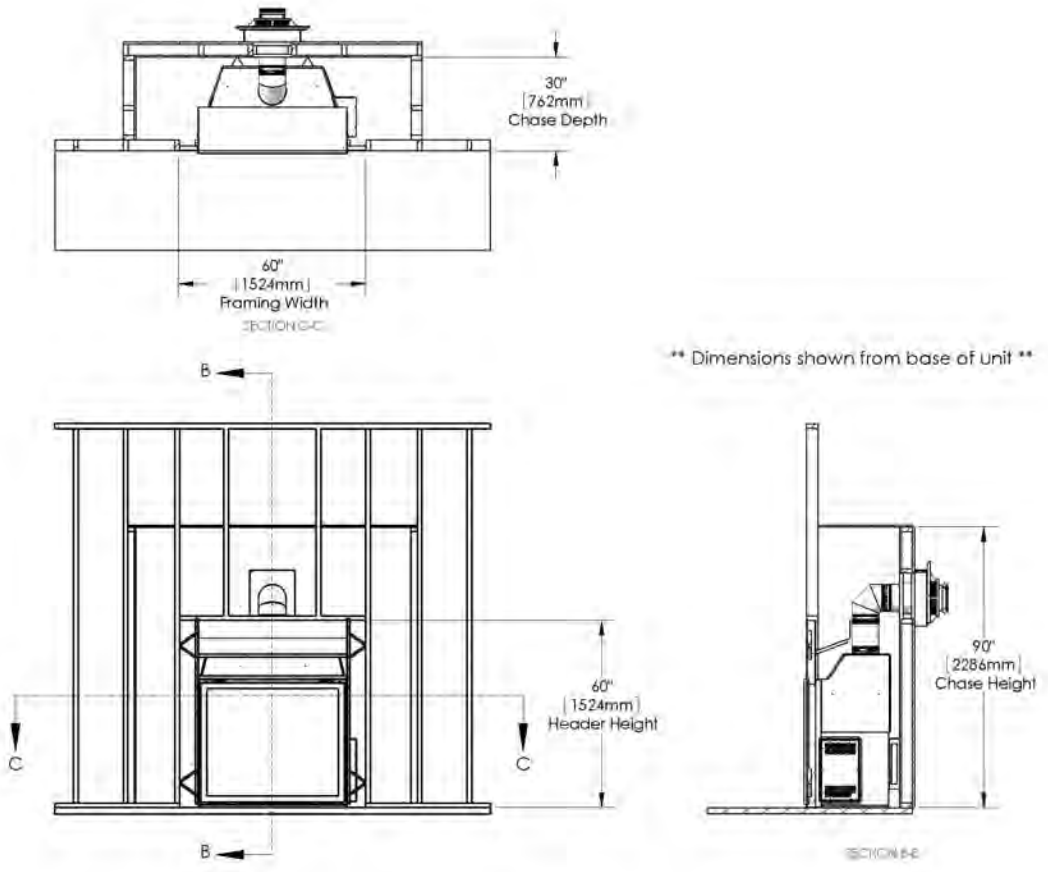


Figure 8. Typical Framing for External Chase - Detailed.

TYPICAL FRAMING - CORNER:

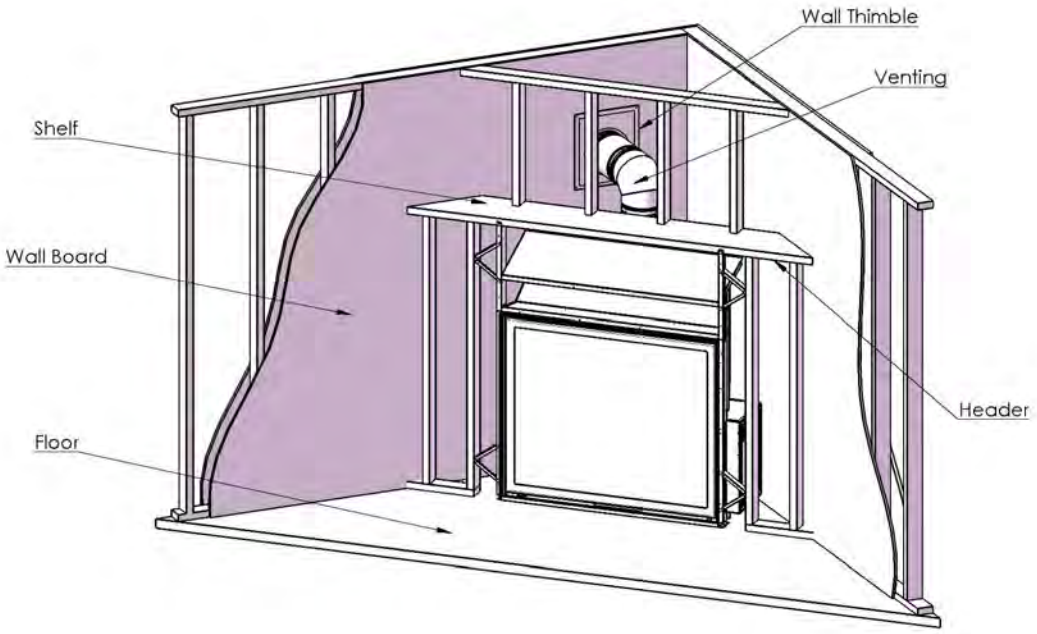


Figure 9. Typical Framing for Corner - General.

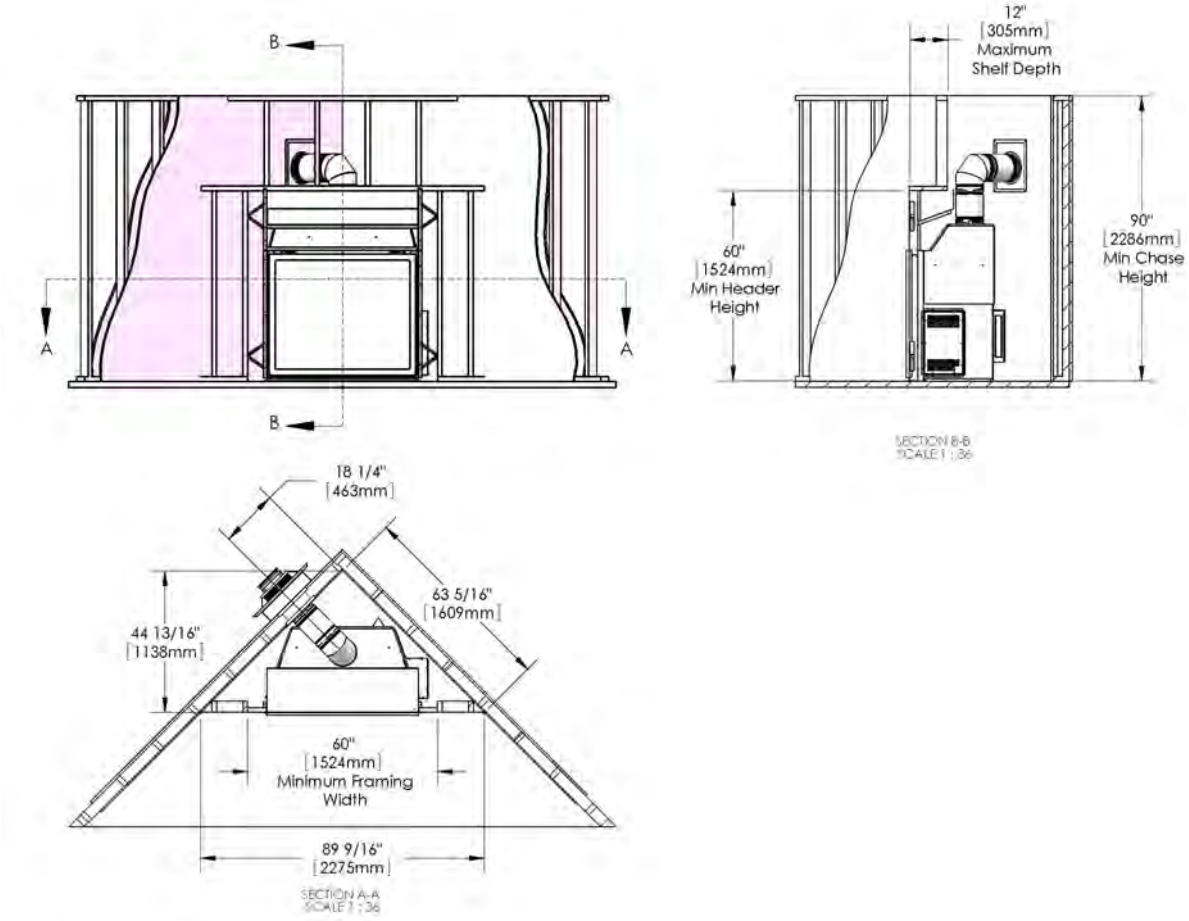
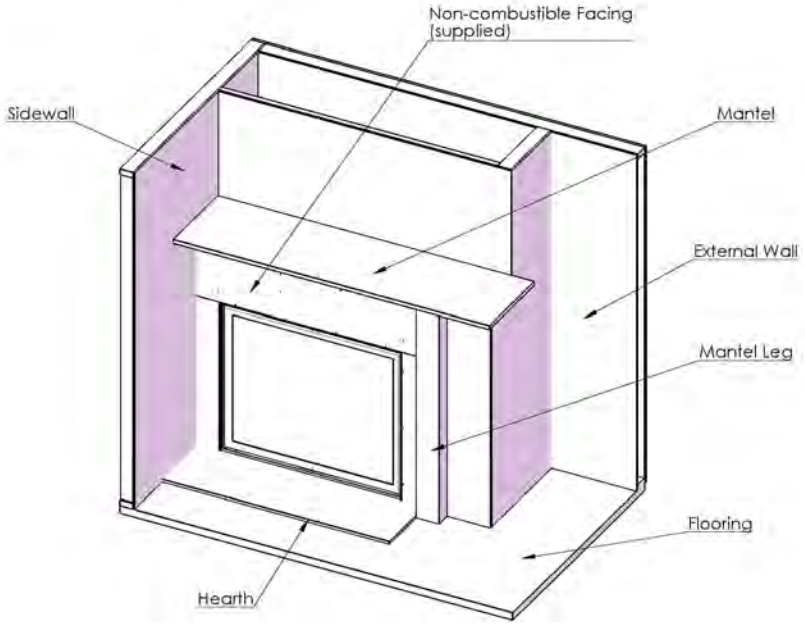


Figure 10. Typical Framing for Corner - Detailed.

TYPICAL FRAMING - SIDEWALL AND MANTEL:



The mantel's maximum overhang is 12" (300mm) at the minimum height of 62" (1575mm) measured from the base of the fireplace.

The mantel can extend 1" (25.4mm) further for every 1" (25.4mm) of height it is installed over the minimum height.

Non-combustible mantels and mantel legs are not limited to these dimensions.

Mantel temperatures are monitored during testing and can reach 117°F (47°C) above room temperatures. Make sure the finish on your mantel is suitable for temperatures of this range.

Figure 11. Typical Framing for Sidewalls & Mantel - General.

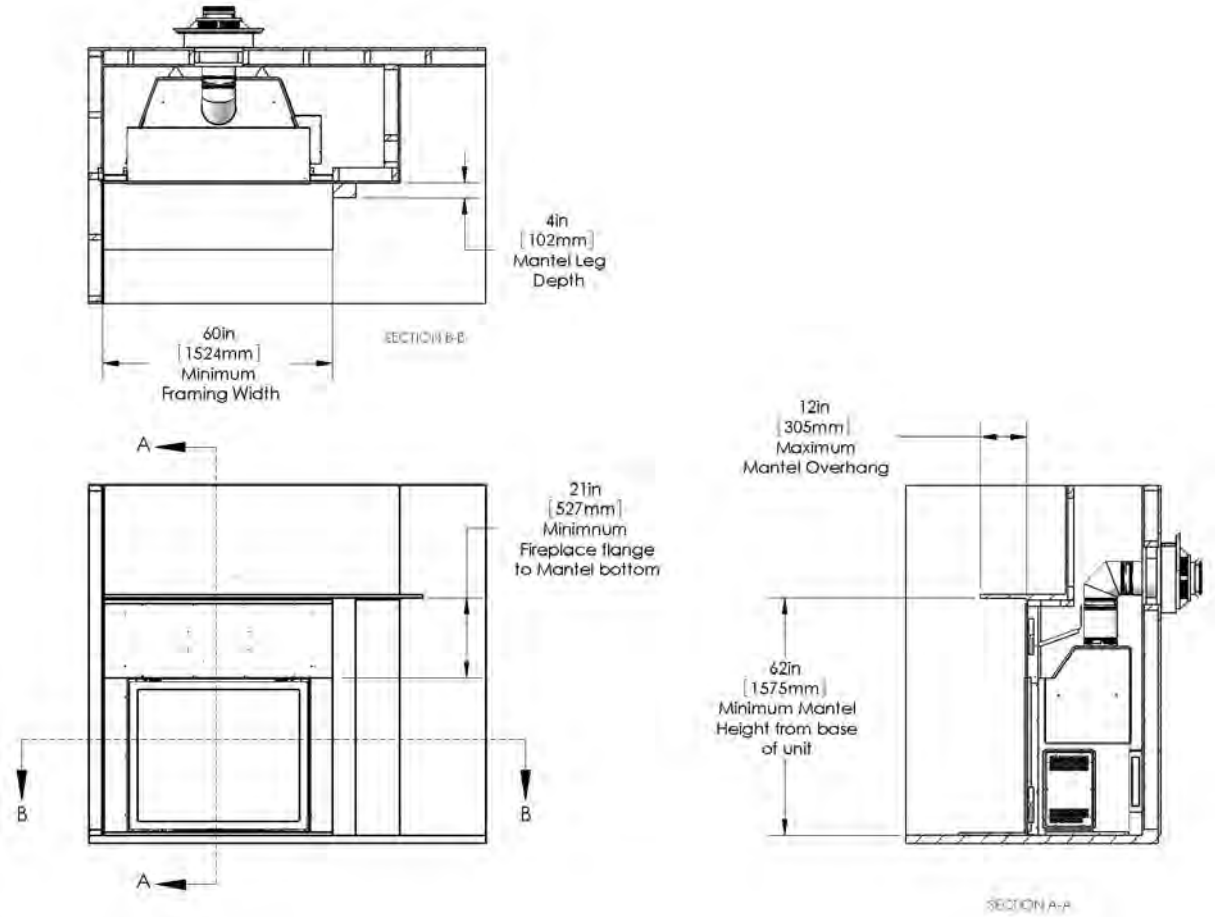


Figure 12. Typical Framing for Sidewalls & Mantel - Detailed.

TYPICAL FRAMING - RAISED HEARTH:

Warning: Failure to follow these guidelines may result in elevated operating temperatures, an inability to remove or install the door, or install the optional front that are available for this unit.

A non-combustible Hearth Insulation Board is not required for the DV62.

If a hearth is to be installed in front of the unit , it must not be thicker than ¾" . If the hearth is raised or the hearth materials is thicker than ¾", the unit must be spaced up by the same distance that the hearth materials extended beyond the ¾" limit.

Example:

Hearth material is 2" limestone. The hearth thickness limit is ¾", therefore the unit must be raised up 1¼" off the floor so that the hearth does not extend vertically beyond the bottom flange of the fireplace.

The DV62 can be installed directly on top of combustible flooring. If the unit needs to raise up off the floor, a wooden structure can be built to accommodate the raised. Placing a couple of thicknesses of plywood under the unit would be an acceptable method.

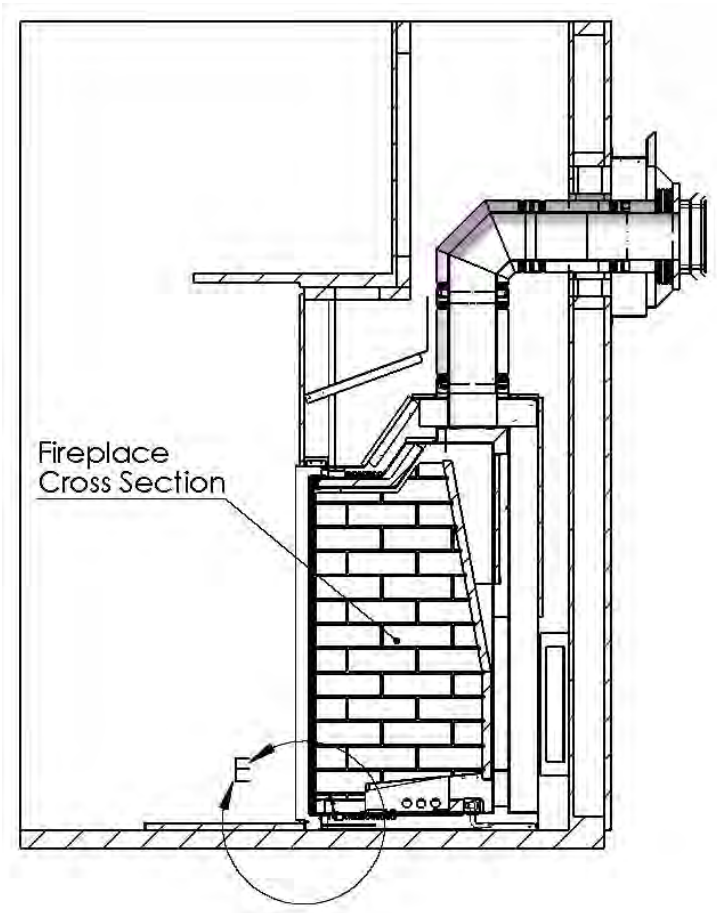


Figure 13. Typical Framing for a Raised Hearth - General.

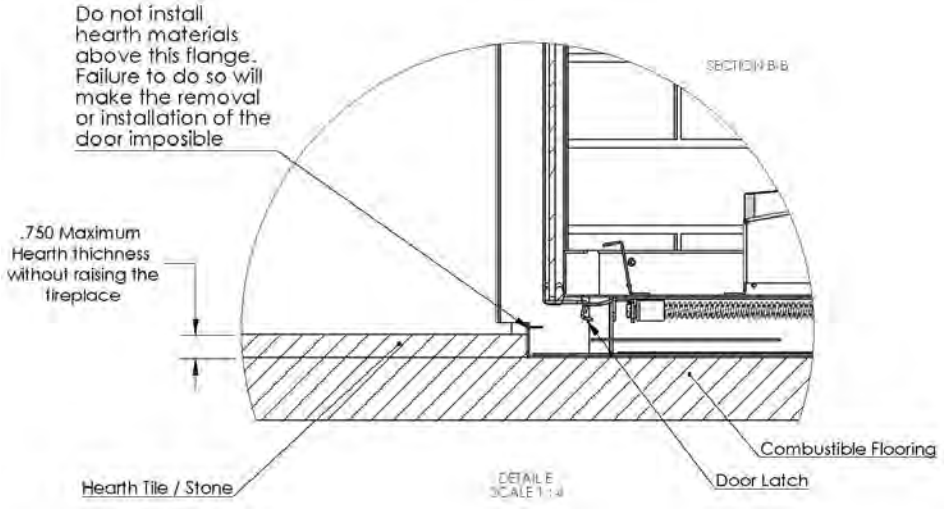


Figure 14. Typical Framing for a Raised Hearth - Detailed.

INSTALLATION OF FACING TRIM:

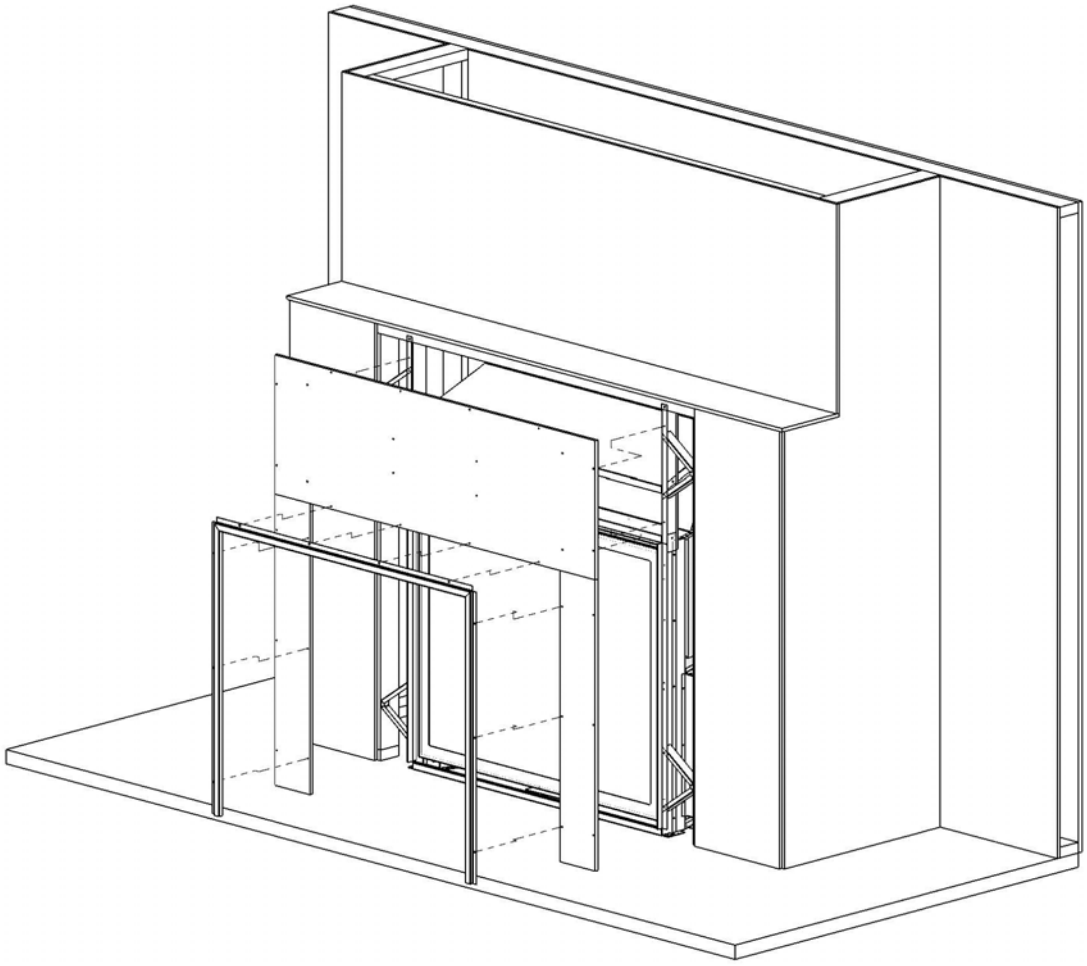


Figure 15. Facing Trim Installation - General.

INSTALLATION OF FIREPLACE FACING:

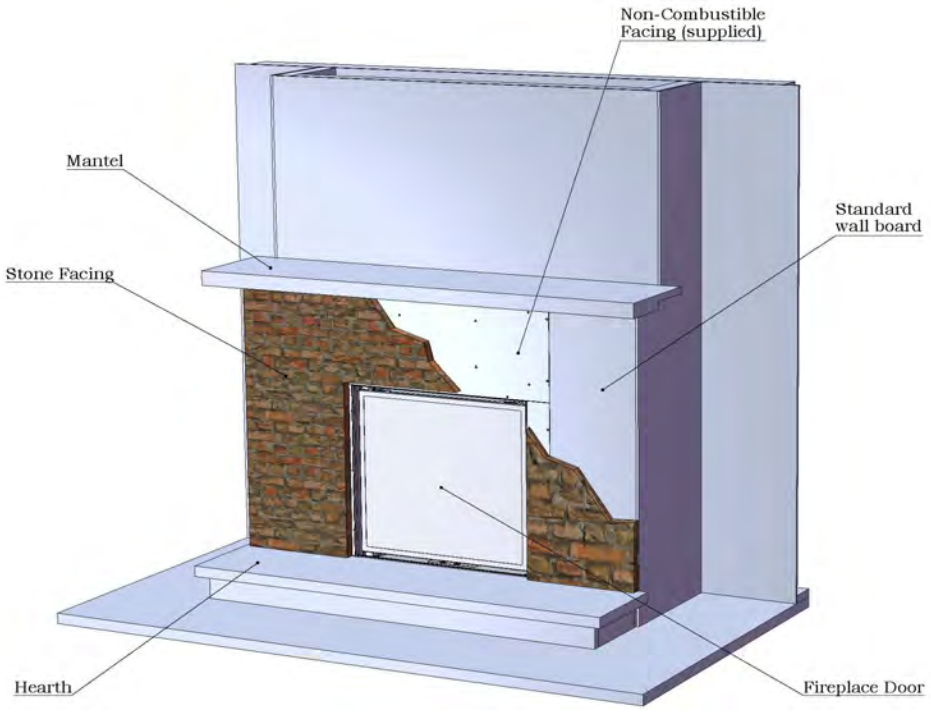


Figure 16. Typical Facing for the Fireplace - General.

The DV62 may be installed with an optional front. The front lift on and off of the fireplace, providing access to the fireplace for regular maintenance and service, see Optional Front Installation.

You have 3 possible scenarios when installing facing to your fireplace. Care must be taken to ensure proper clearances are maintained. Clearances are required between optional front and any stone work applied to your fireplace installation. Failure to maintain this clearance will lead to elevated operating temperatures and possible discoloration of materials and or front.

Three (3) possible installations include:

1) For fireplace facing without an optional front installed.
2) For fireplace facing greater than 1" thick with an optional front installed.
3) For any fireplace less than 1" thick (total facing and non-combustible board combined) with an optional front installed.

Figures 17 to 19 highlight the relationships between the fireplace, optional front, and facing installed.

NOTE: **Optional Door Front cannot be installed with the Porcelain Firebox Liner option.**

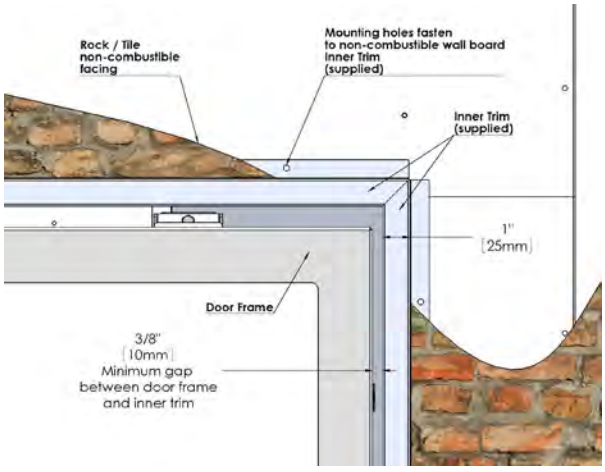


Figure 17. Option 1 - Fireplace Facing Without Optional Front Installed

When installing the DV62 without the optional door sets, install the inner trim kit that is supplied with the unit. The inner trim is fastened to the non-combustible wall board that comes with the unit and the rock/tile facing covers over the trim flange as with any typical drywall flange. The rock or tile facing can be any thickness, but once this unit is installed, you can no longer install the optional door sets

INSTALLATION OF FIREPLACE FACING CONTINUED:

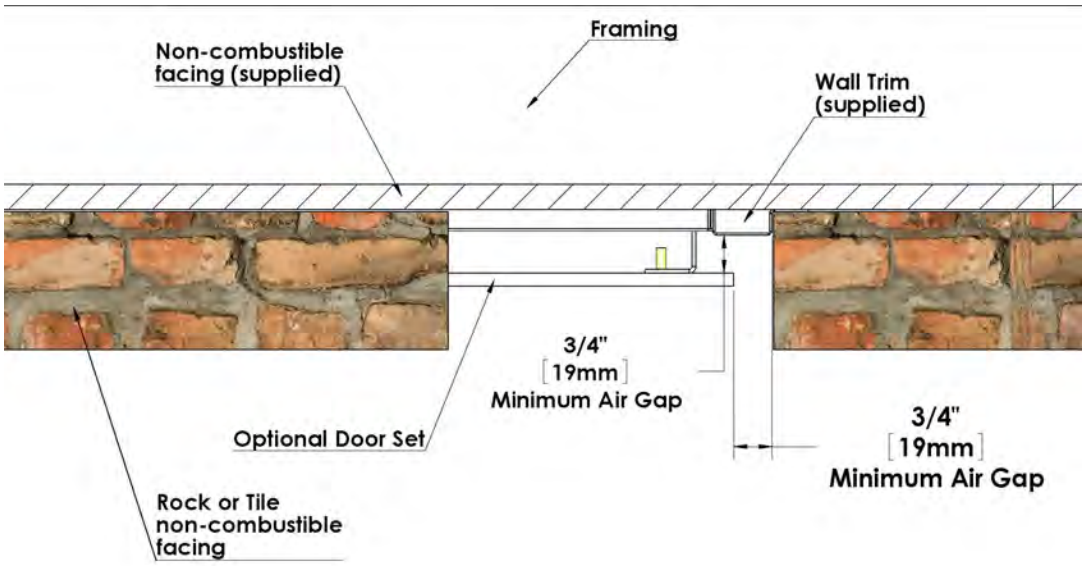


Figure 18. Option 2 - Fireplace Facing More Than 1" (25.4mm) Thick With Optional Fronts Installed.

When installing the DV62 with the optional door and you plan to install rock or tile facing that is thicker than 1" (combined with the non-combustible board supplied), you must install the wall trim kit that is supplied with the unit. The optional wall trim is fastened to the non-combustible wall board that comes with the unit and the rock or tile facing covers over the trim flange as with any typical drywall flange. The minimum air gap shown on the drawing must be maintained between the optional door set and the wall as well as between the facing and the door set as shown.

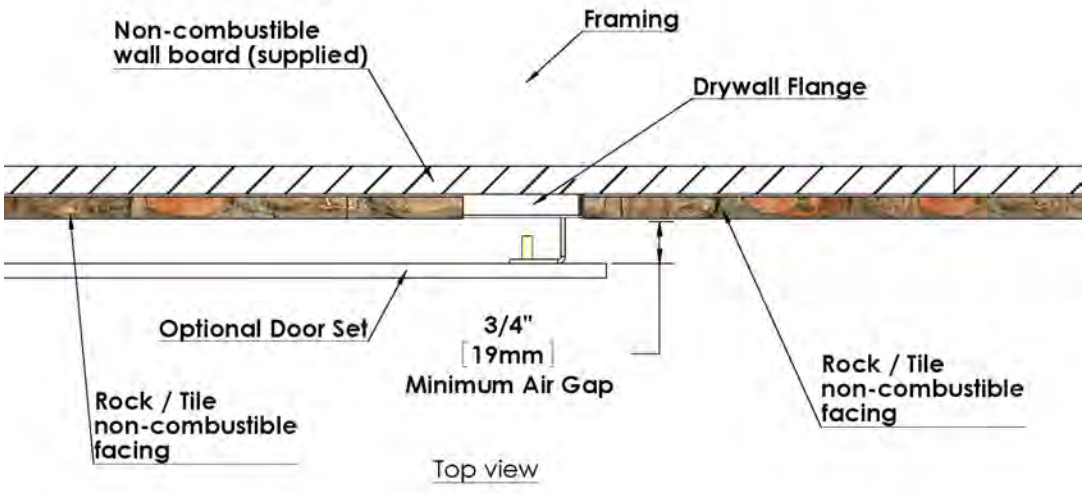
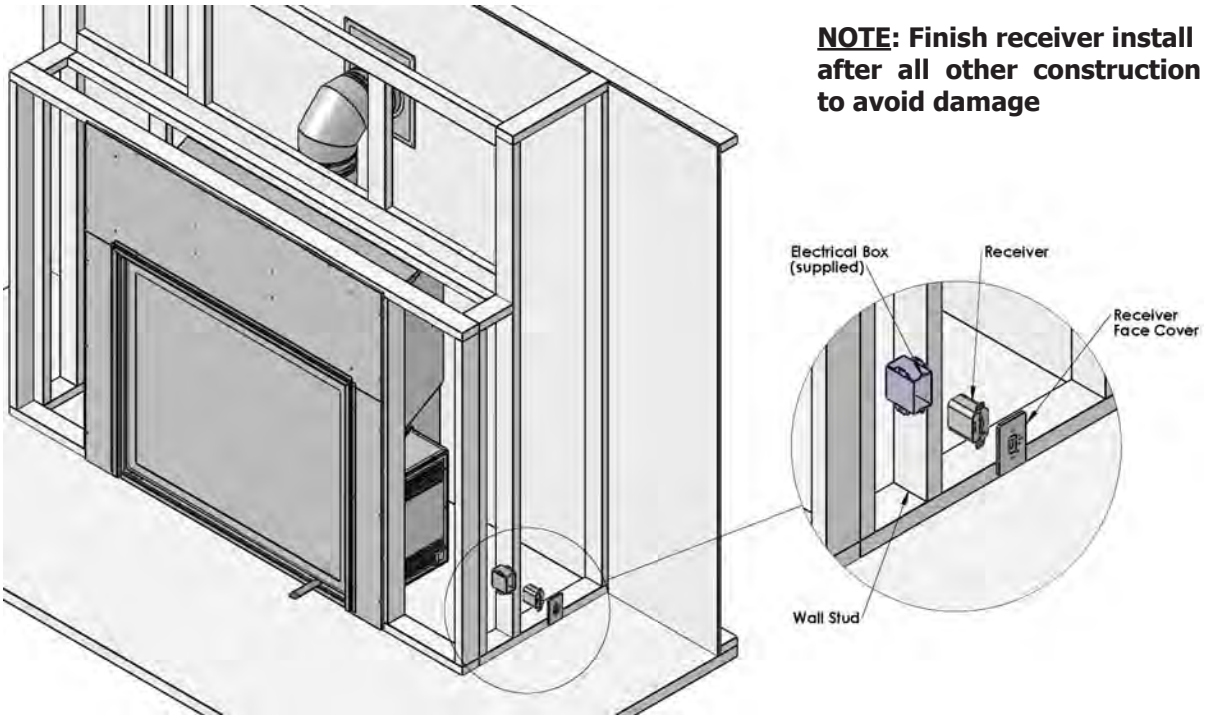


Figure 19. Option 3 - Fireplace Facing Less than 1" (25.4mm) Thick With Optional Fronts Installed.

When installing the DV62 with the optional door and you plan to install rock or tile facing that is thinner than 1" (combined with the non-combustible board supplied), you do not need to install any optional trim. The minimum air gap between the optional door set and the wall must be maintained as shown. Failure to maintain this air gap will result in elevated operating conditions.

INSTALLATION OF RECEIVER:



NOTE: Finish receiver install after all other construction to avoid damage

Figure 20. Receiver Installation.

The Receiver is the heart of the remote control system. You need to access this receiver after installation to change the batteries (for operation during a power failure), to program a new remote / receiver combination and to operate a manual override should you lose your remote control or the batteries in the remote control lose their power.

The Receiver is connected to the fireplace with a wire harness that has a maximum length of 8 ft (2.4m). The connection point on the fireplace is on the right side of the unit, where the gas valve and electronic ignition module is located. Because of the 8 ft (2.4m) limitation in the wiring harness, the receiver needs to be mounted to the right side of the fireplace. An electrical box is provided for the receiver. Mount this electrical box as you would any electrical outlet or switch box. Thread the cable and connector through the back of the electrical box and connect it to the rear of the receiver. Secure the receiver into the electrical box. Once the facing of the fireplace installation is complete, install the receiver cover, supplied with the unit as shown. The receiver cover also functions as a switch plate and allows for access to the program button, critical for remote control operation.

Review the section in this manual regarding the remote control operations for more information on the functions of the receiver.

ALLOWABLE VENT CONFIGURATIONS:

The vent chart, in Figure 21, illustrates the vent configurations that have been tested and approved for use with this appliance. 45° elbows are acceptable for this installation and may be used instead of 90° elbows. You may use two (2) 45° elbows for every 90° elbow shown in this chart.

This appliance can be used with 5" x 8" venting in vertical termination installation with the used of Simpson 5" x 8" reducer adapter.

The restrictor settings shown in Figure 21, are recommended. Installation factors such as altitude, prevailing weather conditions such as temperature or wind, or the number of elbows used may affect your final restrictor settings. Insufficient restriction may cause pilot outages or reduced efficiencies. Too much restriction may lead to elevated operating temperatures, poor flame appearances, sooting or carbon deposits building up on burner effects or window glass.

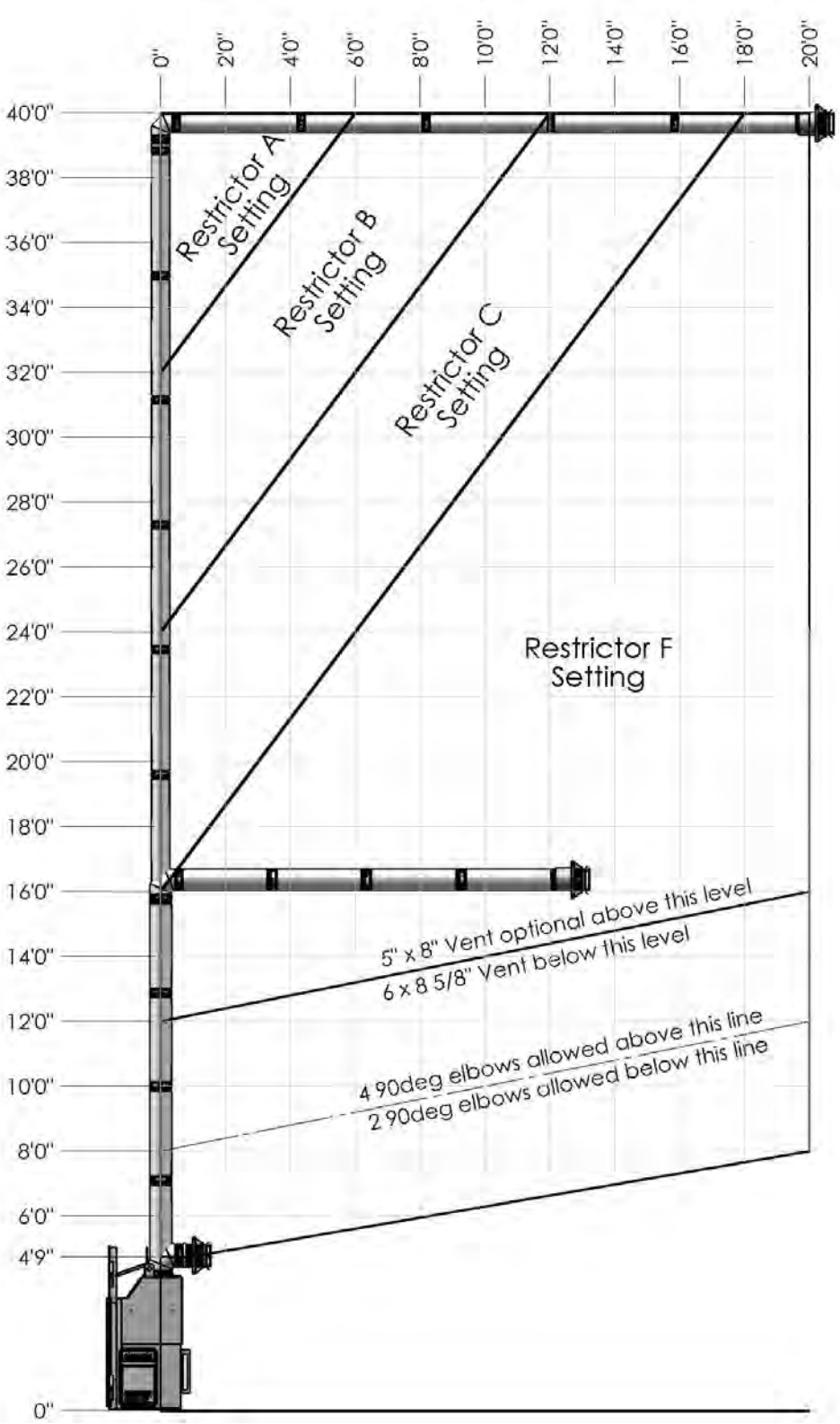


Figure 21. Allowable Vent Configurations Chart.

VENT TERMINATION RESTRICTIONS:

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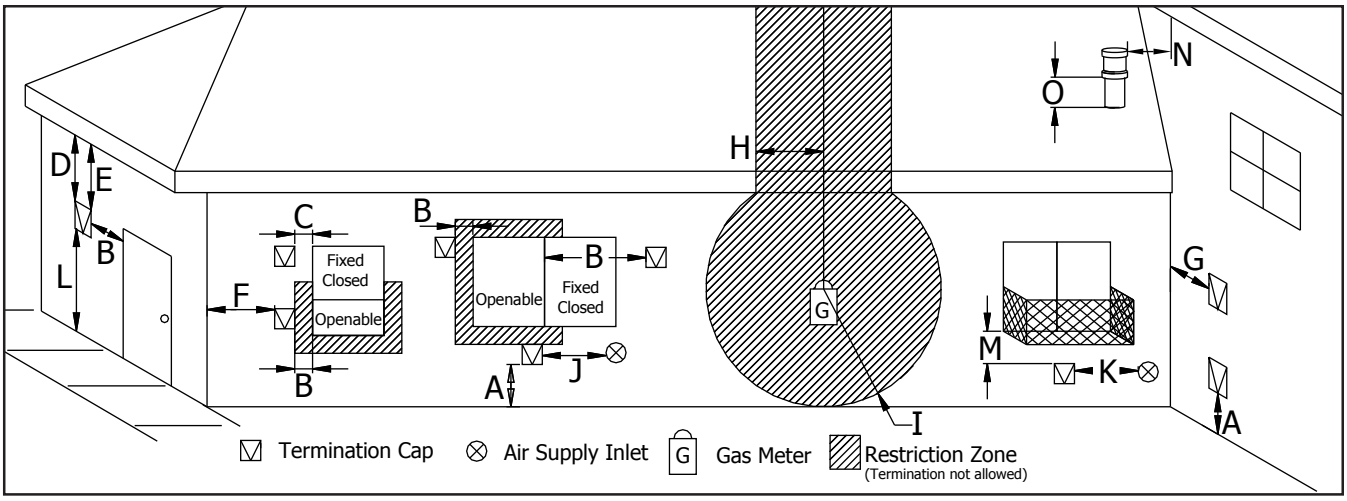


Figure 22. Vent Termination Restrictions, refer to Table 1.

Table 1: Vent termination clearances, refer to Figure 22.

Letter	Canadian Installation [1]	US Installation[2]	Description
A	12 in (30 cm)		Clearance above grade, verandah, porch, deck, or balcony.
B	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
C	12 in (30 cm)*		Clearance from permanently closed window (to prevent condensation).
D	30 in (77 cm)		Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
E	30 in (77 cm)		Clearance to unventilated soffit.
F	12 in (30 cm)*		Clearance to outside corner.
G	12 in (30 cm)		Clearance to inside corner.
H	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
K	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m)[t]	7 ft (2.13 m)*[t]	Clearance above paved sidewalk or paved driveway located on public property.
M	12 in (30 cm)[+]		Clearance under verandah, porch, deck, or balcony.
N	12 in (30 cm)*		Clearance horizontally to any surface (such as an exterior wall) for vertical terminations.
O	12 in (30 cm)		Clearance above roof line for vertical terminations.

[1] In accordance with the current CSA B149, Natural Gas and Propane Installation Code.
[2] In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.
* These numbers are only estimates. Clearance in accordance with installation codes and the requirements of the gas supplier.
[t] A vent shall not terminate directly above a side walk or paved driveway that is located between two single family dwellings and it serves both dwellings.
[+] Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.

NOTE: Venting terminals shall not be recessed into walls or siding.

APPROVED VENT PARTS:

Table 2: Vent part numbers (Must state if galvanized or black wanted, PART NUMBERS).

Part Description	Simpson Duravent
6" Pipe Length	662492666098
12" Pipe Length	662492877241
24" Pipe Length	662492779163
36" Pipe Length	662492486399
48" Pipe Length	662492429266
12`Adjustable Length	662492606360
45° Elbow	662492654897
90° Elbow	662492646984
90° Elbow (swivel)	662492863695
Adjustable Roof Flashing 0/12 - 6/12	662492760871
Steep Roof Flashing 7/12 - 12/12	662492384497
Elbow Strap	662492864975
Wall Strap	662492794630
Storm Collar	662492323151
Ceiling Firestop	662492471715
Wall Thimble	662492144596
Horiz. Termination, High Wind	662492641439
Vert. Termination, High Wind	662492723951
Vinyl Siding Standoff	662492314067
5" x 8" Reducer Adapter	TBA

IMPORTANT: This chart covers the major components only. Refer to the manufacturers' catalogue for further details on roof flashings and other installation items

The DV62 fireplace has been tested and certified for use with SIMPSON DURAVENT TYPE GS PIPE FOR GAS STOVES. When planning an installation, it will be necessary to select the proper length of vent pipe for the particular requirements.

WARNING: Do not mix parts from different vent manufacturers' systems.

INSTALLATION OF FLUE RESTRICTOR:

Flue Restrictor is necessary to keep the fireplace running at its intended efficiency. They are also required to counteract the effect that taller vertical vent runs may have on the appliance. The additional venting action that tall vertical vent systems may have can result in poor pilot and/or burner operations and possibly nuisance shut downs. Generally, the vent restriction may be less than what is shown in the vent chart, but not greater.

The DV62 has a built in adjustable flue restrictor. Set the flue restrictor before you install the firebox liners. The flue restrictor pivots in the middle and is secured with a T20 screw. Refer to the Venting Chart (Figure 21) to determine the correct setting. The vent chart shows the range of vent setups that you can use when installing the DV62. The vent chart shows an appropriate restrictor setting for the vent run that you are using.

The vent chart is a starting point for the restrictor setting. Environment factors can affect the restrictor setting such as altitude, prevailing weather and wind conditions. Keep in mind that running a restrictor setting that is more restrictive than the recommended setting may result in the fireplace running at elevated temperatures which can result in hazardous conditions. Do not leave an installation without securing the vent restrictor.

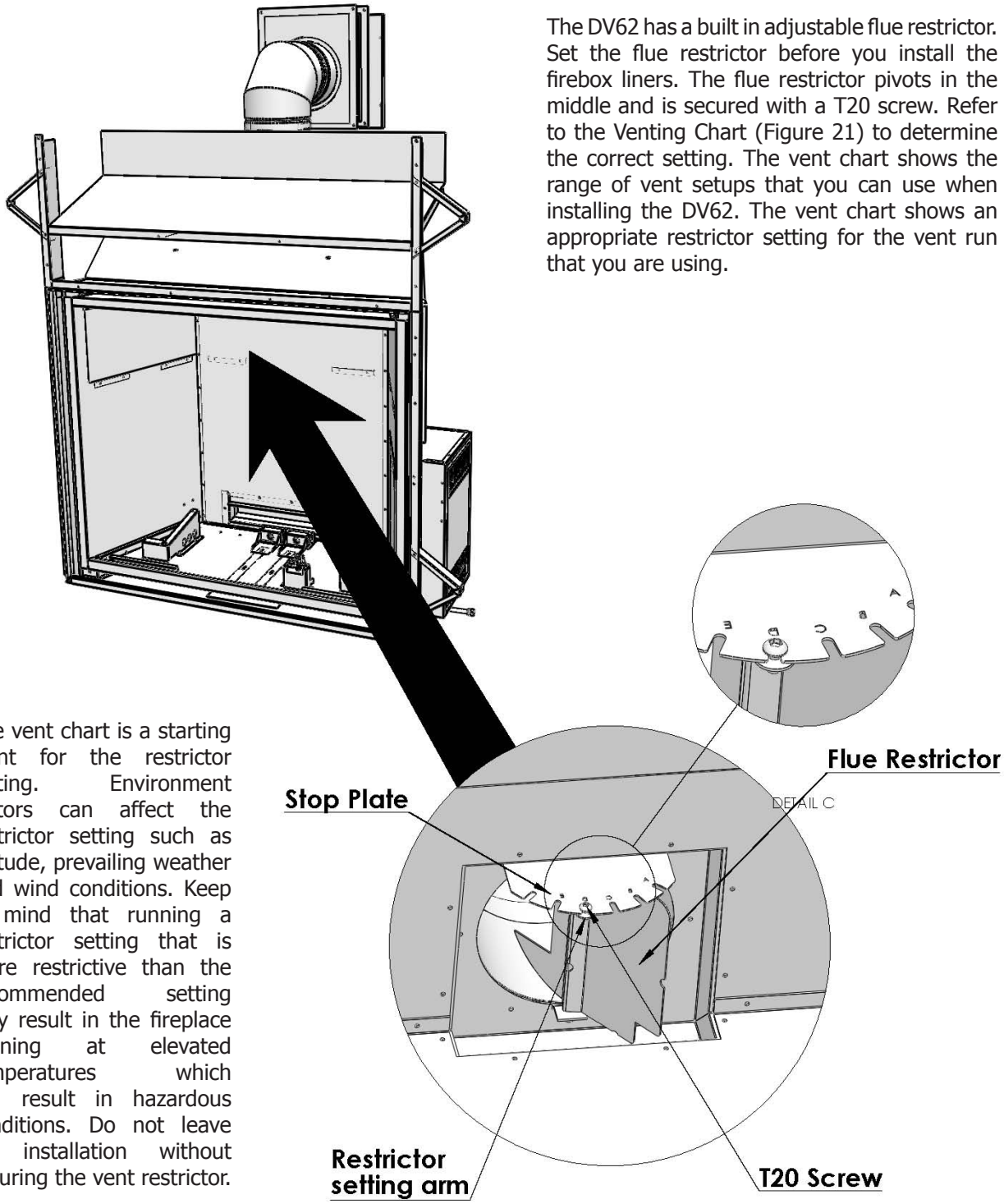


Figure 23: Installation of Flue Restrictor - Close-Up.

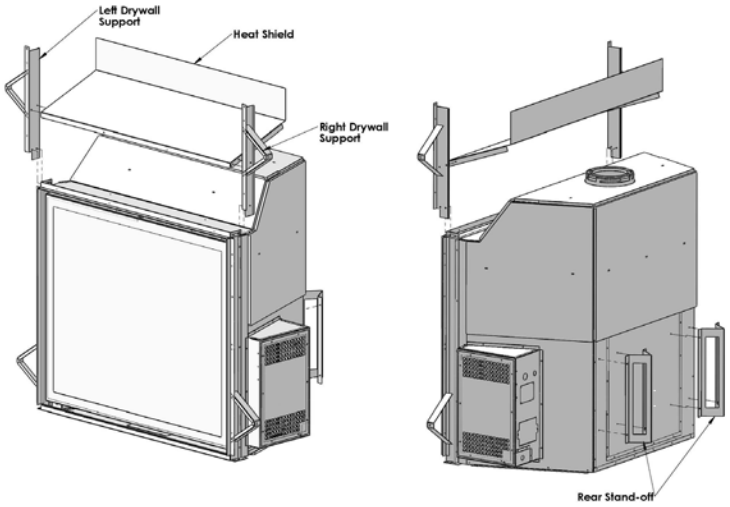
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PLANNING YOUR INSTALLATION:

Prior to starting your venting installation, refer to the section on Allowable Vent Configurations to make sure your plans fall into the allowable limits of horizontal and vertical installations.

When planning your installation, it will be necessary to select the proper length of vent pipe for your particular requirements. For horizontal installations, refer to the section on Clearances to Combustibles to determine the minimum clearance from the rear of the appliance to the wall. It is also important to note the wall thickness. Select the amount of vertical rise desired for "vertical-to-horizontal" type installations. To determine the length of vent pipe required for vertical installations, measure the distance from the appliance flue outlet to the ceiling, the ceiling thickness, the vertical rise in an attic or second story, and allow for sufficient vent height above the roof line. For two-story applications, firestops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required.

ASSEMBLY OF THE UNIT:



1.Using eight (8) T-20 screws provided, install the drywall supports right and left as well as the heat shield in the middle, as shown in Figure 28.

2.Using eight (8) T20 screws provided, attach back stand-offs, as shown in Figure 24.

Figure 24: Installation of Supports, Heat shield & Stand-off.

SECURING UNIT INTO POSITION:

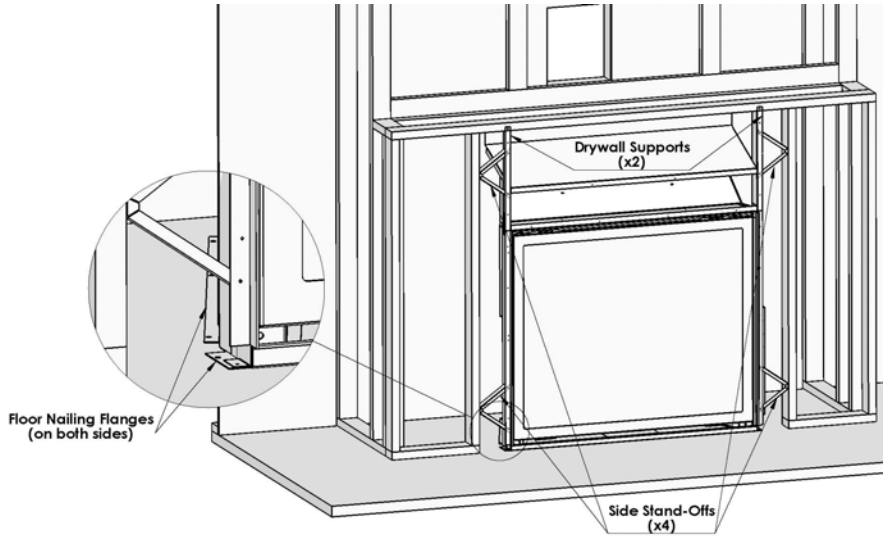


Figure 25: Securing the Unit.

Once the unit is in its final position, confirm that you have access to power, gas supply, that your non-combustible zone requirements are met, that you meet all the minimum vent requirements, and that your planned vent terminal location will meet all of the vent termination clearances. Secure the unit to the floor, with at least four (4) wood screws, two (2) on either side of the unit's bottom nailing flange. Secure the side stand-offs to the framing members using four (4) wood screws, one (1) for each stand-off and to the header, one (1) wood screw for each drywall support.

INSTALLATION OF NON-COMBUSTIBLE WALL BOARD:

Install the non-combustible wall board provided with the unit. The side boards are interchangeable and are secured with drywall screws, three (3) to each side of the unit and three (3) to each side frame member. The top board is secured with four (4) drywall screws along the top frame (header), four (4) along the top nailing flange of the unit and two (2) on each vertical frame member. Also secure the top wall board to the heat shield behind it with two (2) screws and each drywall support upright with two (2) screws. See the section on hearth installation for installing the hearth protector, required with the installation of this unit. All the screws required to attach the wall board sides and top to the unit have corresponding holes already located on the units nailing flanges, drywall supports and heat shield.

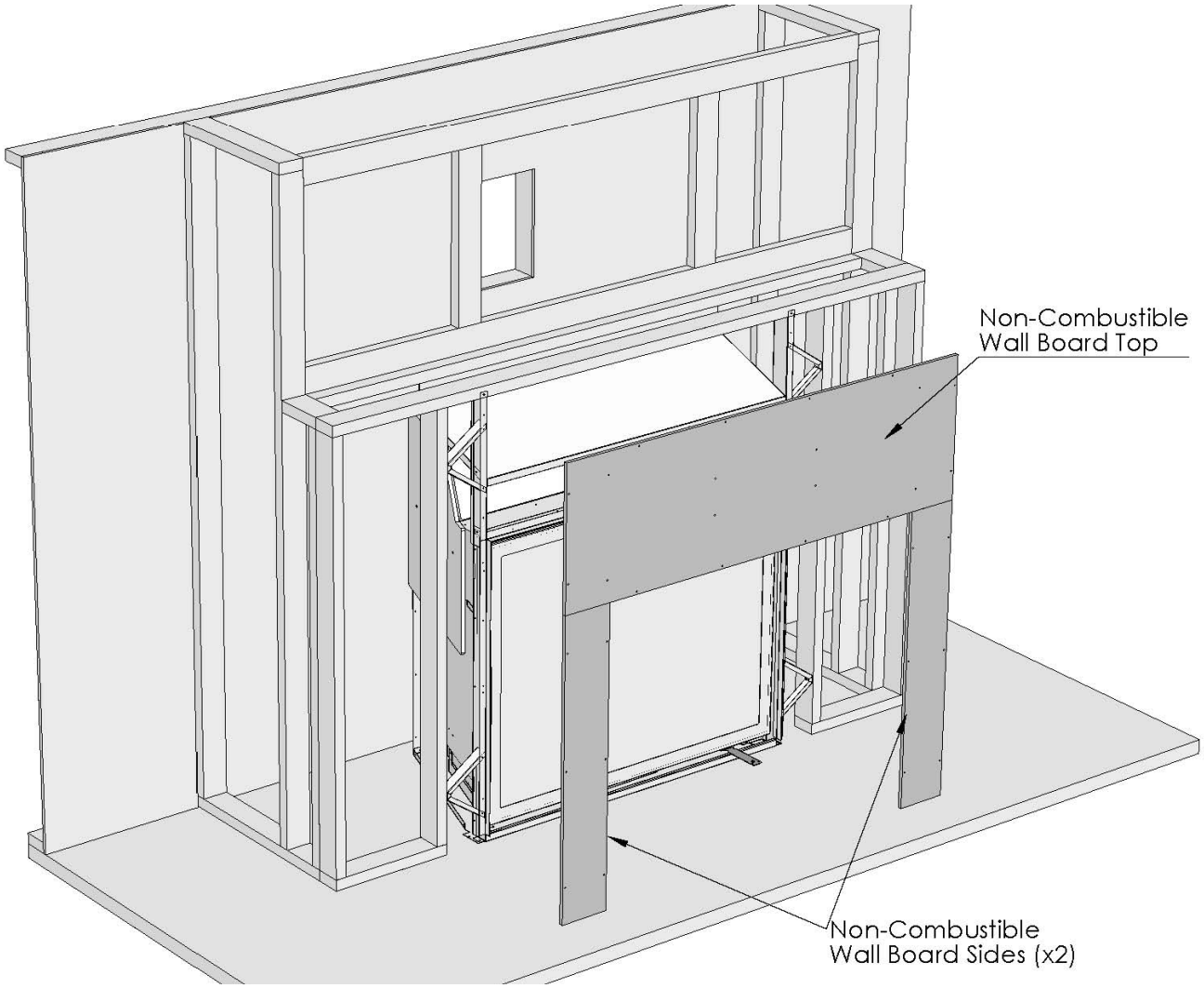


Figure 26: Installation of Wall Board

INSTALLATION OF VENTING AND TERMINATIONS:

Read all instructions carefully before starting the installation. Failure to follow these instructions may create a fire or other safety hazard, and will void the warranty.

INSTALLATION PRECAUTIONS:

- Do not install any damaged venting or vent components.
- Do not modify any vent or termination component.
- Do not install any vent component that is not an approved vent component for this appliance.
- Do not use any instructions other that those included in this manual or those included by the vent component manufacturer with the venting. When there are discrepancies between the two, this manual will be considered the final authority.

Consult your local building codes before beginning the installation.

WARNING

- **Always maintain required clearances (air spaces) to nearby combustibles to prevent a fire hazard. Do not fill air spaces with insulation. Unless stated otherwise, clearances on horizontal vent sections are 2" (51mm) to combustible materials. Clearances to vertical vent sections are 1" (25mm) to combustible clearances.**
- **The fireplace and vent system must be vented directly to the outside of the building. Each direct vent fireplace must use its own separate vent system. Common vent systems are prohibited.**
- **The flow of combustion and ventilation air not be obstructed.**

HORIZONTAL INSTALLATION:

Step 1. Set the fireplace in its desired location. Check to determine if wall studs or roof rafters are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the appliance.

Step 2. Direct Vent pipe and fittings are designed with special twist-lock connections. Assemble the desired combination of pipe and elbows to the appliance. See the sections on TYPICAL FRAMING - INTERNAL CHASE, EXTERNAL CHASE or CORNER INSTALLATION for some of the possible vent pathway options. All installations must fall within the Allowable Vent Configurations shown in Figure 21.

Notes:

(1) Twist-lock procedure: Four (4) indentations, located on the female ends of pipes and fittings, are designed to slide straight onto the male ends of adjacent pipes and fittings, by orienting the four pipe indentations so they match and slide into the four (4) entry slots on the male ends. Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two (2) sections are fully locked.

(2) Horizontal runs of vent must be supported every 3 feet (915mm). Wall Straps are available for this purpose.

(3) Sealant is only necessary on the outer tube of the GS Pipe. Run a ⅛ inch (3mm) wide bead of sealant around the male end of the outer sleeve, as shown in Figure 27, and twist-lock the pipes or fittings together.

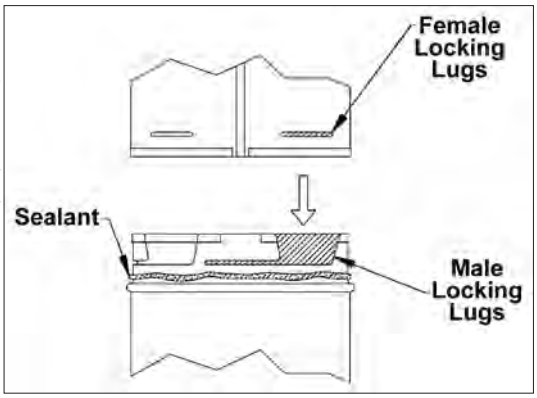


Figure 27: Twist-Lock Connection.

Step 3. With the adaptor and pipe attached to the fireplace, slide the fireplace into its correct location, and mark the wall for a rectangular hole of the appropriate size. Use 12.5"x14.75" (318x375mm) hole for 6" x 8-5/8" pipe, Figure 28. The center of the hole should line up with the center line of the horizontal pipe, as shown in Figure 30. Cut and frame the hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of non-combustible material, i.e. masonry block or concrete, a hole with zero clearance to the pipe is acceptable.

Notes:

(1) Any horizontal run of vent must have a ¼ inch (6mm) rise for every 1 foot (305mm) of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.

(2) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be easily blocked or obstructed. Termination clearances must comply with the VENT TERMINATION RESTRICTIONS section.

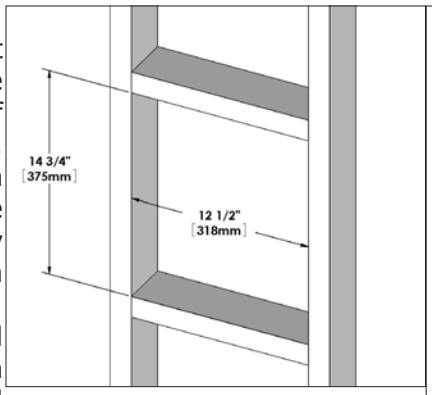


Figure 28:Thimble Framing

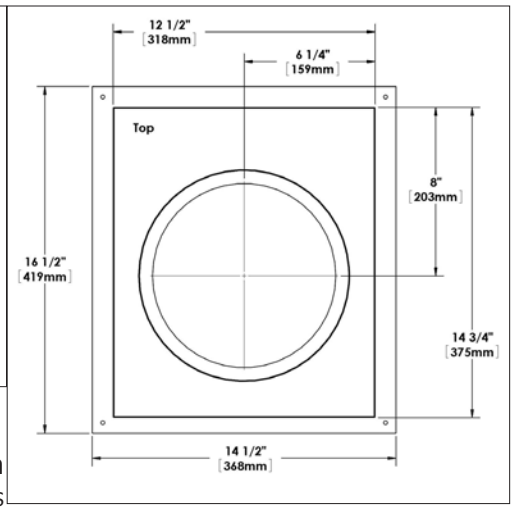


Figure 29:Thimble

Step 4. Attach the termination to the termination stand-off with four screws (refer to Figure 31a). Before attaching the Vent Termination to the termination stand-off, run a bead of non-hardening sealant around its outside edges, so as to make a seal between it and the termination stand-off.

Step 5. Place the termination assembly against the wall board with the vent termination center with the cut out hole. Secure the termination assembly to the exterior wall with eight (8) wood screws provided (refer to Figure 31b). The arrow on the vent cap should be pointing up. Ensure that proper clearances to combustible materials are maintained. Attach intake heat shield to the termination stand-off with the pre-drill holes (refer to Figure 32).

Notes:

The eight (8) wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.

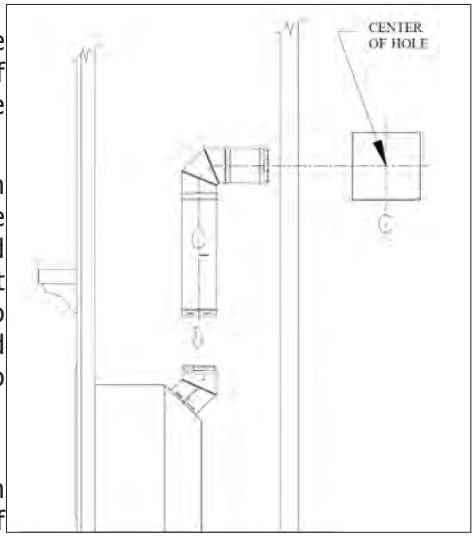


Figure 30: Horizontal Venting and Cut Away.

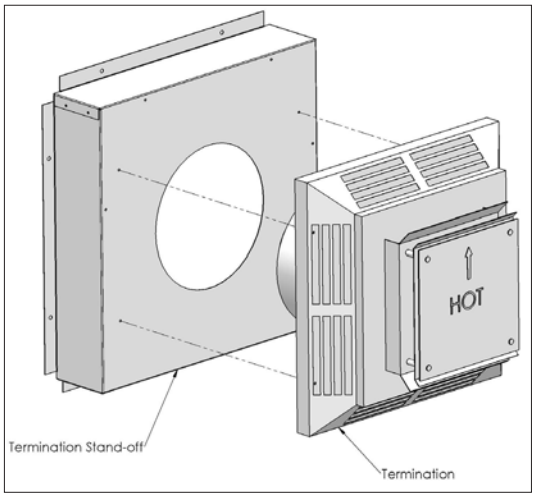


Figure 31a: Attach Termination Stand-off

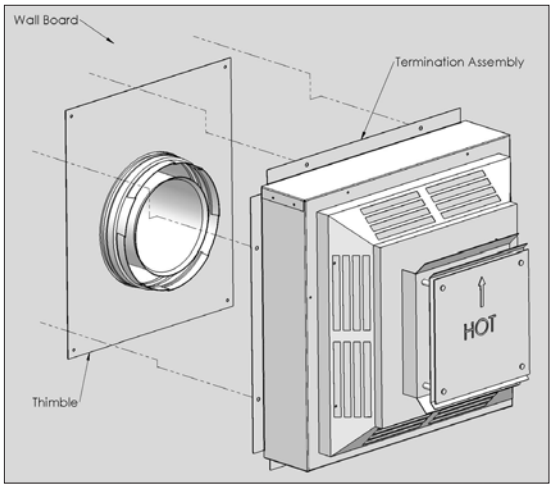


Figure 31b: Fastening Horizontal Termination Cap in Place.

Step 6. Before connecting the horizontal run of vent pipe to the vent termination, slide the Wall Firestop over the vent pipe on the interior side of the wall.

Step 7. Slide the appliance and vent assembly towards the wall, carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extend into the vent cap sufficient distance so as to result in a minimum pipe overlap of 1¼ inches (32mm).

Step 8. Slide the Wall Firestop up to the wall surface and attach with screws provided (see Figure 33).

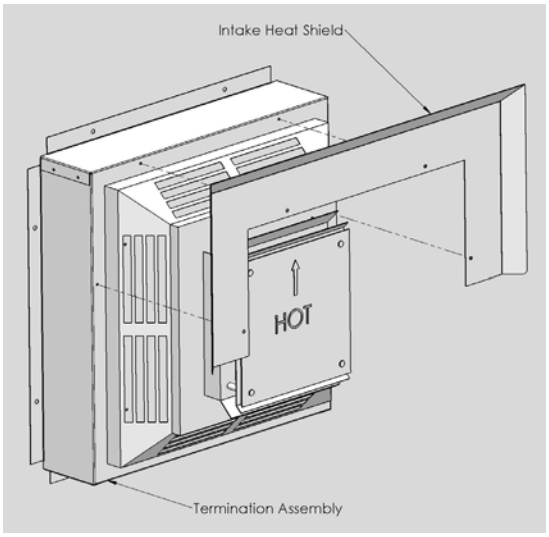


Figure 32: Install Intake Heat Shield

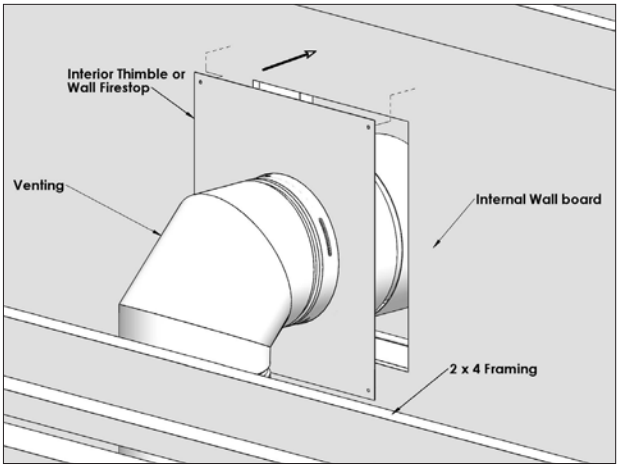


Figure 33: Installation of Wall Firestop.

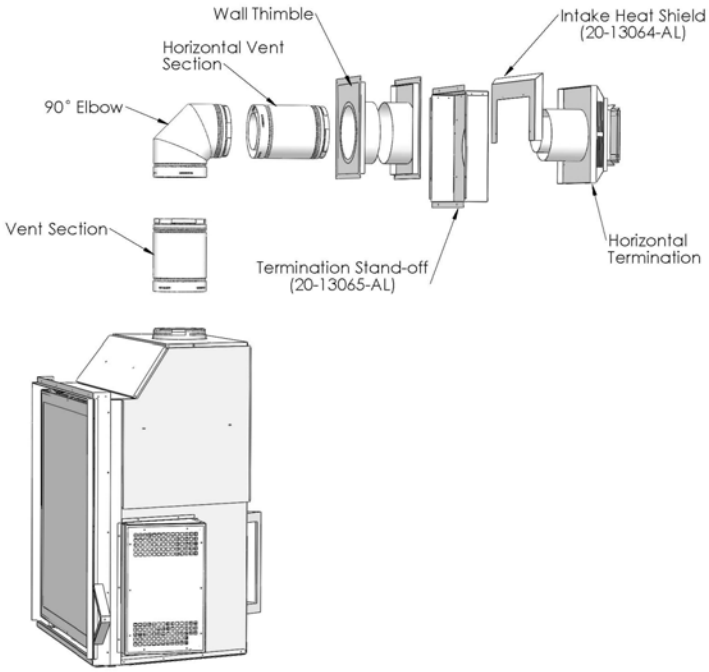


Figure 34: Typical Minimum Vent Configurations - Horizontally Terminated.

VERTICAL TERMINATION INSTALLATION:

Step 1. Maintain clearances between venting and combustible building materials as stated earlier in this section. Do not pack air spaces with insulation. Check with the Allowable Vent Configurations page when planning your installation to ensure the vertical and horizontal elements of your installation are within these limits.

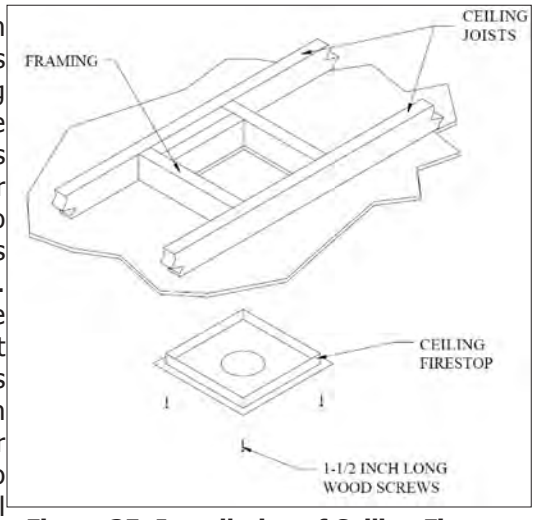


Figure 35: Installation of Ceiling Firestop.

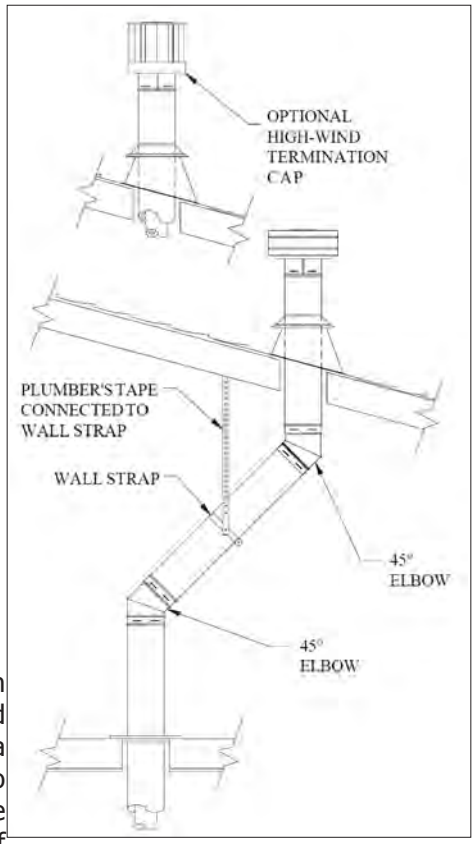


Figure 36: Vertical Installation using Wall Straps.

Step 2. Set the fireplace in its desired location. Drop a plum bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, to avoid cutting load bearing members.

Step 3. To install the Ceiling Firestop in a flat ceiling, cut a square hole in the ceiling 11"x11" (280x280mm) square for 8" x 5" pipe, centered on the hole drilled in Step 2. Frame the hole as shown in Figure 35.

Step 4. Assemble the desired lengths of galvanized Pipe and Elbows necessary to reach from the Appliance Adaptor up through the Ceiling Firestop. Ensure that all Pipe and Elbow connections are in their fully twist-locked position.

Step 5. Cut a hole in the roof centered on the small drill hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles, as specified earlier. Continue to assemble lengths of Pipe and Elbows necessary to reach from the Ceiling Firestop up through the roof line.

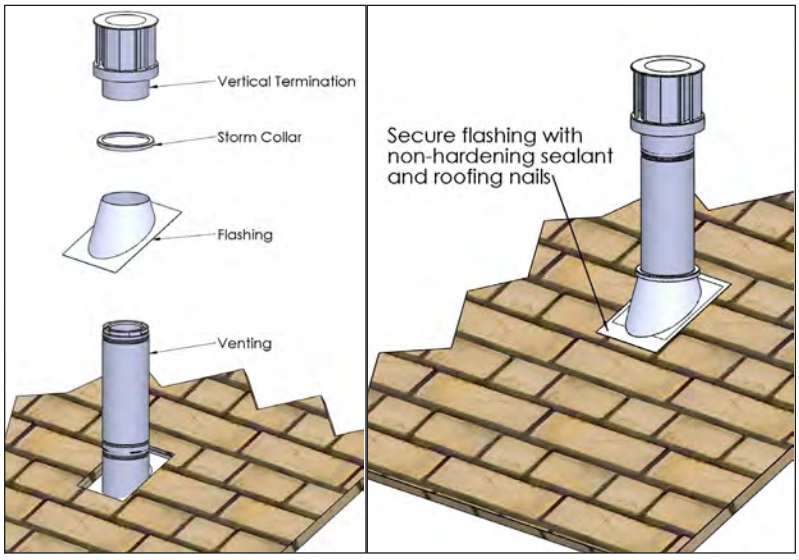


Figure 37: Installation of Flashing & Vertical Termination.

Notes:

(1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 feet, to avoid excessive stress on the Elbows, and possible separation. Wall Straps are available for this purpose (see Figure 36).

(2) Whenever possible, use 45° Elbows, instead of 90° Elbows. The 45° Elbow offers less restriction to the flow of flue gases and intake air.

Step 6. Slip the flashing over the Pipe Section(s) protruding through the roof. Use a non-hardening sealant between the Flashing and the roof to prevent water leakage. Secure the base of the Flashing to the roof with roofing nails. Ensure the roofing material overlaps the top edge of the Flashing as shown in Figure 37. Verify that you have at least the minimum clearance to combustibles at the roofline.

Step 7. Continue to add Pipe Sections until the height of the Vent Cap meets the minimum building code requirements described by your local codes. In the absence of local codes, make sure the terminal is 2 feet (610mm) above anything within 10 feet (3046mm) of the vent (refer to Figure 40 & Table 3 for clearances for different pitches). Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining rooflines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height may solve this problem.

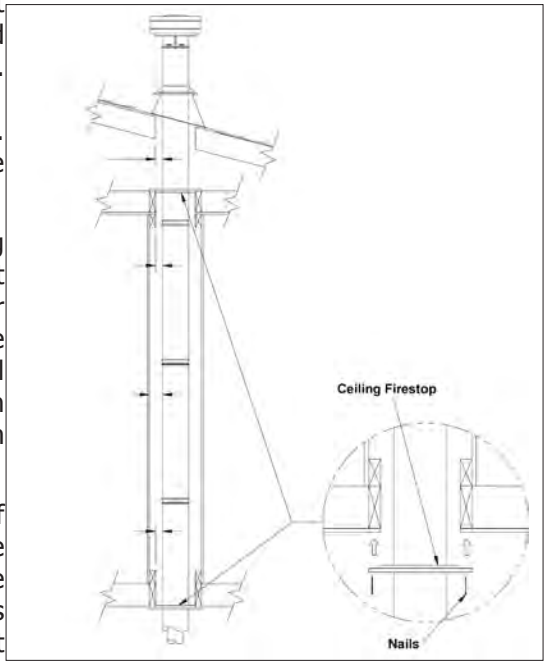


Figure 38: Installation of Ceiling Fire Stops.

Step 8. Slip the Storm Collar over the Pipe, and push it down to the top of the Flashing, as shown in Figure 38. Use the non-hardening sealant above and below the joint between the Storm Collar and the Pipe.

Step 9. Twist lock the Vent Cap.

Notes:

(1) For multi-story vertical installations, a Ceiling Firestop is required at any subsequent floors (as shown in Figure 38). The opening should be cut and framed in the same manner as the opening in Step 3 (see Figure 35).

(2) Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed and sheet rocked with standard construction materials, however minimum allowable clearances between the outside of the vent pipe must be maintained. Do not fill any of the required air spaces with insulation.

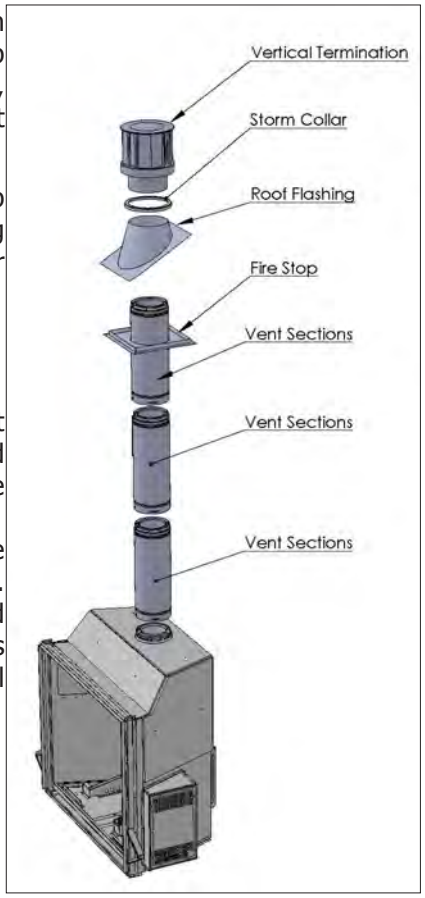


Figure 39: Typical Vent Configurations - Vertically Terminated.

Table 3: Minimum 'H' for Figure 40.

Roof Pitch	Minimum Height (H)	
	Feet	Meters
Flat to 7/12	1	0.3
Over 7/12 to 8/12	1.5	0.46
Over 8/12 to 9/12	2	0.61
Over 9/12 to 10/12	2.5	0.76
Over 10/12 to 11/12	3.25	0.99
Over 11/12 to 12/12	4	1.22
Over 12/12 to 14/12	5	1.52
Over 14/12 to 16/12	6	1.83
Over 16/12 to 18/12	7	2.13
Over 18/12 to 20/12	7.5	2.29
Over 20/12 to 21/12	8	2.44

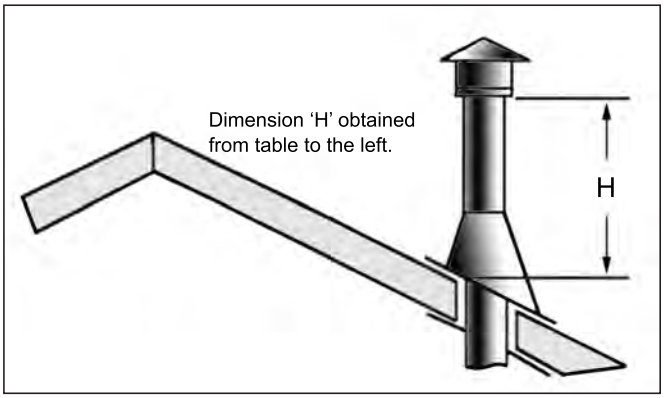


Figure 40: Height of Vertical Termination; Reference Table 3.

DOOR REMOVAL AND INSTALLATION:

1) The fireplace door is hung on two (2) hooks on the top of the firebox. The two (2) door latches at the bottom of the firebox hook over the tabs on the bottom of the door frame.
2) Lower the door latch tool underneath the door frame. Catch the lower door latch with the door latch tool (see Figure 41) and pull it out slightly, then down. Once the lower door latch clears the tab on the bottom of the door frame, release it inwards and then remove the door latch tool. Refer to Figures 43 & 44.
3) Pull the Door Frame at the bottom forward about 2" (5cm), then lift the Door Frame upwards to clear the

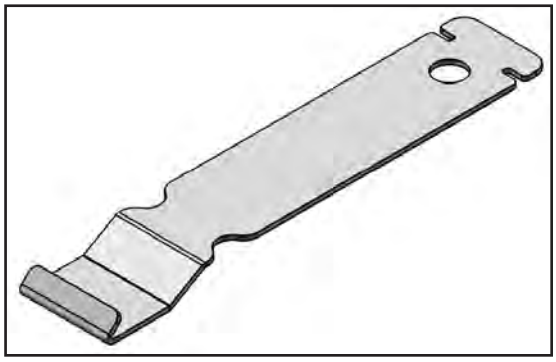


Figure 41: Door Latch /Air Adjustment Tool.

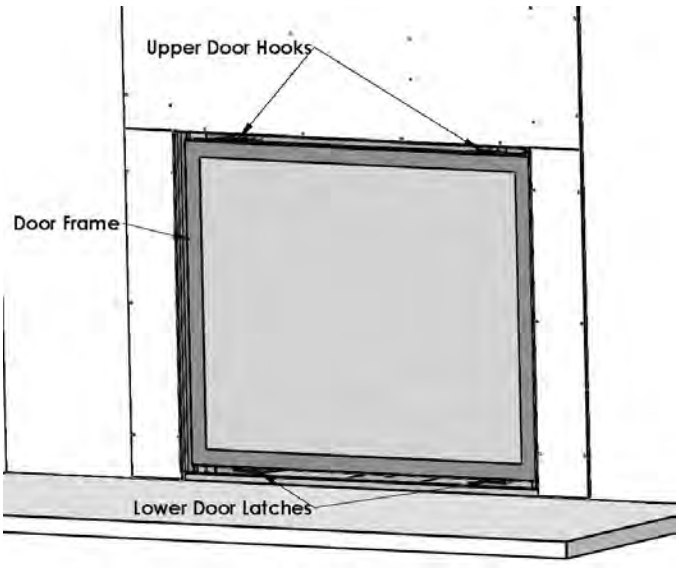


Figure 42: Door Latch Locations.

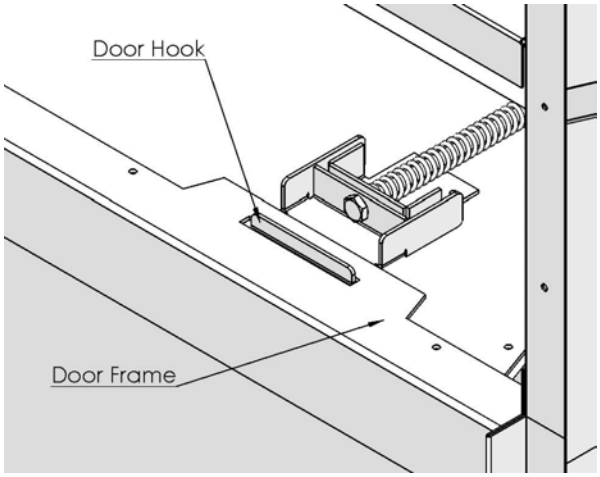


Figure 43: Door Latch Tool in Place.

4) Lift the Door Frame away, being careful that the glass panel is secure within the Door Frame.

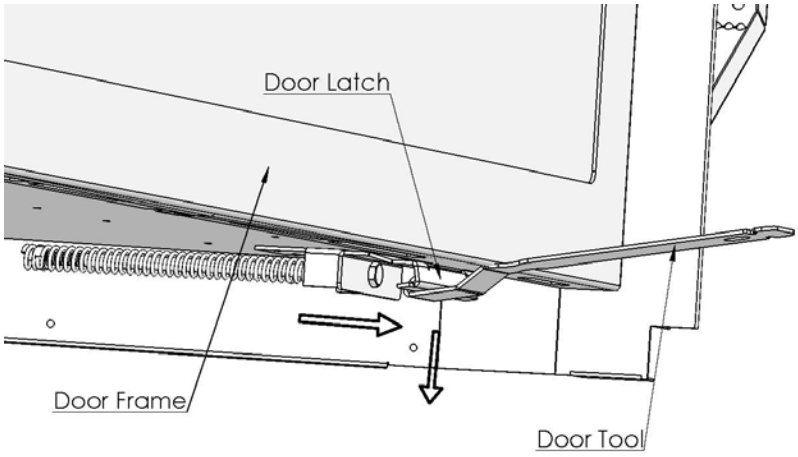


Figure 44: Door Latch Locations.

GAS HOOK-UP:

The DV62 is equipped from factory with a ½" SAE 45° male gas fitting. This fitting will fit commonly used flexible gas supply lines.

If the local code requires to use rigid pipe for gas supply, finish the gas line inside the control box, (through the access hole illustrated) fasten the pipe to the control box and complete the connection using a short length flex line.

NOTES:

This appliance and its main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi (35 kPa).

Isolate this appliance from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than ½ psi (3.5 kPa).

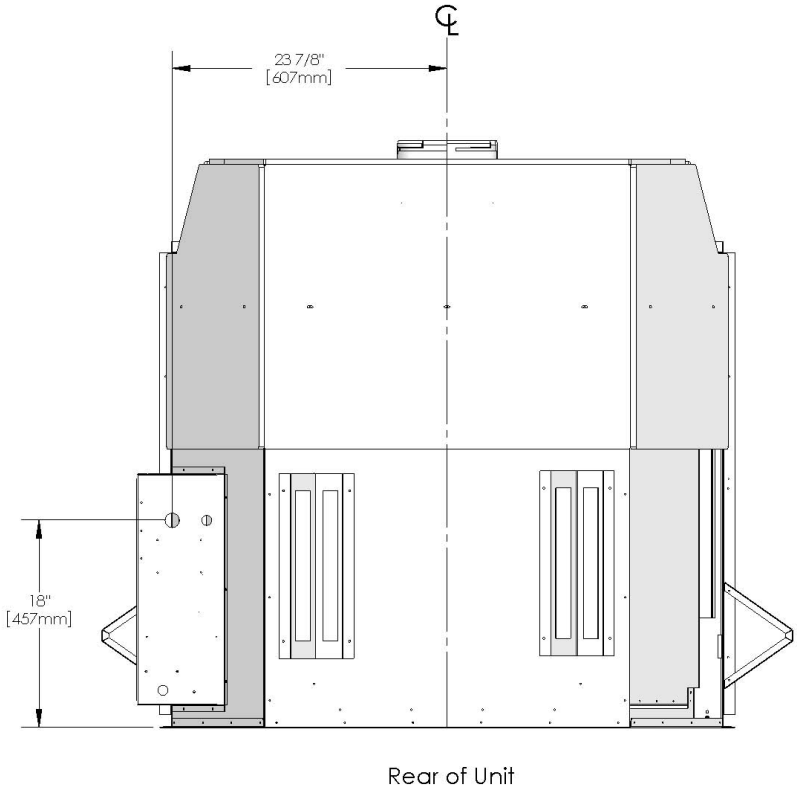


Figure 45: Location of Gas Hook-Up.

ELECTRICAL HOOK-UP:

An electrical junction box is provided and fastened to the back of the control box. Power needs to be brought to the electrical junction box. The power for the various control components are all provided from the fan control module. Remove the control box cover, install the provided electric outlet and cover and plug the fan control module into it. See the Rating Label for the listed electrical requirements.

When installed, the DV62, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

WARNING
Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

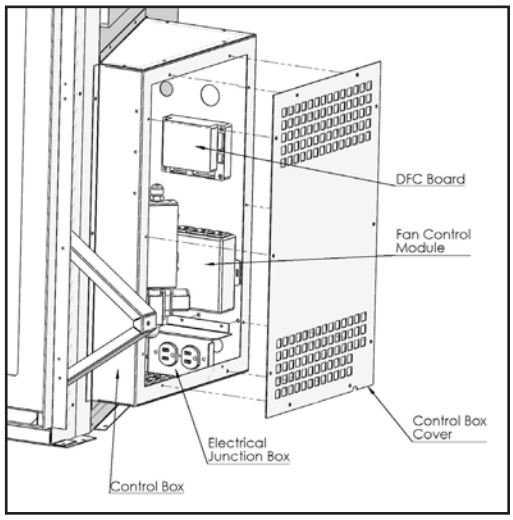


Figure 46: Location of Electrical Hook-Up.

FIREBOX LINER INSTALLATION:

IMPORTANT: Complete the installation of flue restrictor before proceed the firebox liner installation. The paint on the panels may fade for the first 8-10 hours of burn time, but will come back to its color after the paint has cured. The paint is very delicate and handling them with care is necessary not to mark or smudge the paint.

1) Install the Rear Firebox Liner Panel. This panel rest on top of the rear brick panel support. Hold it with one hand or have someone else hold it while place in the Left Panel.
2) Install the Left Firebox Liner Panel; it sits on the bottom front edge of the firebox (see Figure 48), a support bracket at the lower rear of the firebox, and is held in by a retainer at the top of the firebox. Adjust the panel retainers as required.
3) Install the Top Firebox Liner Panel by placing it on top of the Rear Panel and behind the Left Panel (see Figure 50 and 51). Hold it with one hand or have someone else hold it for you while you place the last panel. WARNING: If this panel falls from this location it will possibly break or the paint work will become chipped.
4) Install the Right Firebox Liner Panel in the same manner used for the Left Panel (see Figure 52). The vertical edges of the left and right panels should line up with the front edges of the firebox sides.

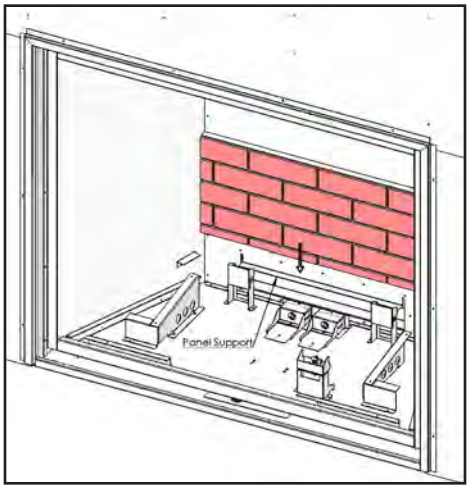


Figure 47: Rear Firebox Liner Panel In Place

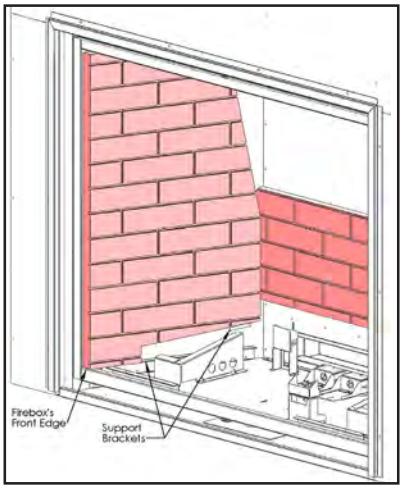


Figure 48: Left Firebox Liner Panel on Front Edge

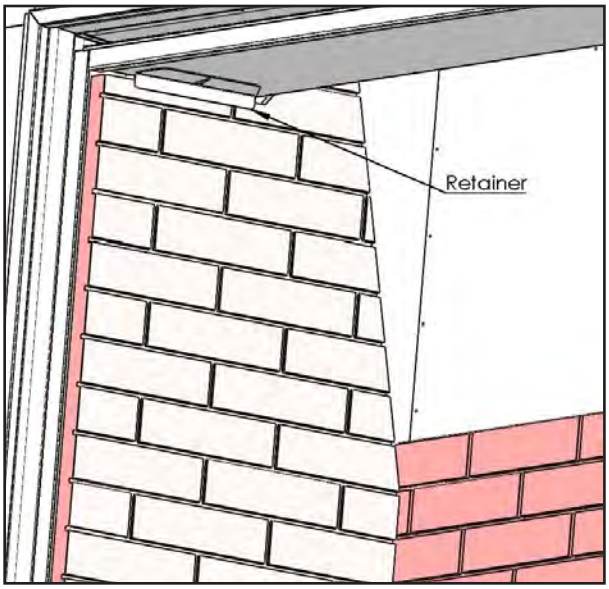


Figure 49: Left Firebox Liner Panel in Place

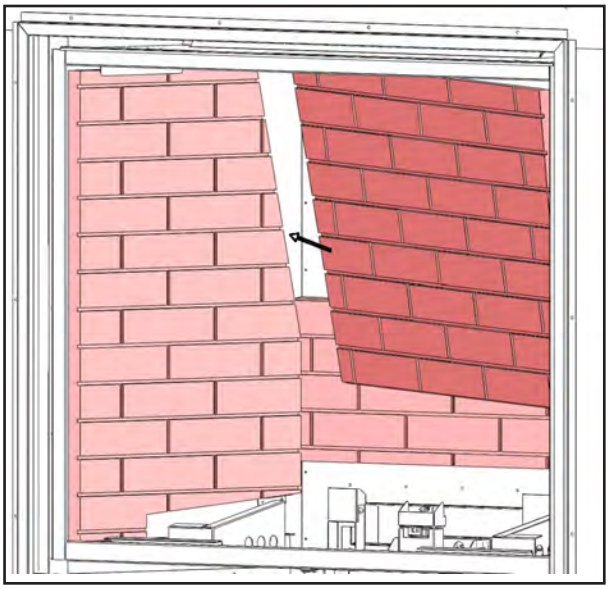


Figure 50: Top Firebox Liner Panel Installed.

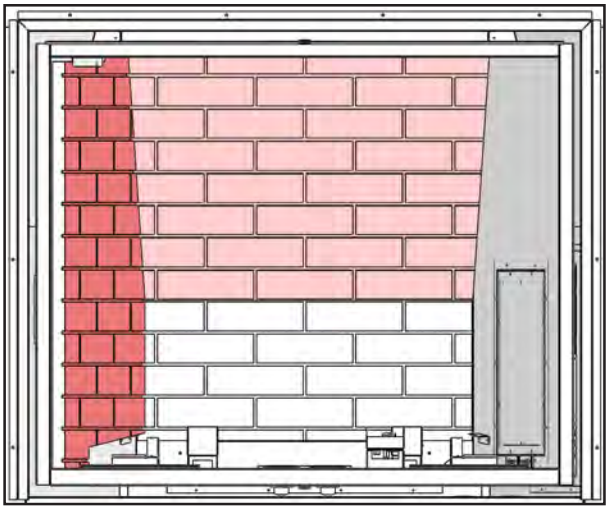


Figure 51: Top Firebox Liner Panel in Place.

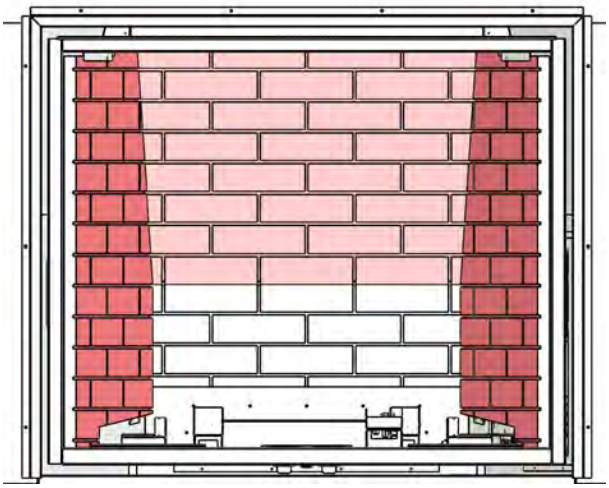


Figure 52: Rigjt Firebox Liner Panel in Place.

LOG BURNER / EMBER BED INSTALLATION:

1. In the bottom rear of the firebox there are two (2) gas orifices in a housing that facilitate the air shutter mechanisms and the Burner Mounting Brackets are above them (See Figure 53). There are two (2) mixing tubes underneath the back of the burner (see Figure 54). Lift the burner into the firebox with the back of the burner tilted downward. Keep the burner high enough at the front to clear the pilot assembly. Line up the mixing tubes with the holes in the burner mounting brackets and slowly lower the front of the burner over the pilot assembly (see Figure 55).
2. Pull the burner forward up to the angular brackets near the front of the firebox (see Figure 56).

   IMPORTANT: If the burner is not far enough back to lower the burner behind these brackets, then the mixing tubes are not engaged in the air shutter. Failing to ensure the mixing tubes are located in the mixing tube support brackets may cause serious performance and or safety issues.
3. Install the burner accent pieces as shown in Figure 57. There are a left, a right and a front ceramic trim. On each side of the burner and on the inside of each burner side accent pieces there is a slot, which should be aligned in order to position the log grate correctly (see Figure 58).
4. The firebox grate has two (2) tabs that run below the feet of the grate (see Figure 59), place the grate over the burner top and carefully inserting the grate tabs into the slots on the burner (see Figure 60). Once the grate is installed correctly, the burner, grate, and side burner accents will be all locked together.

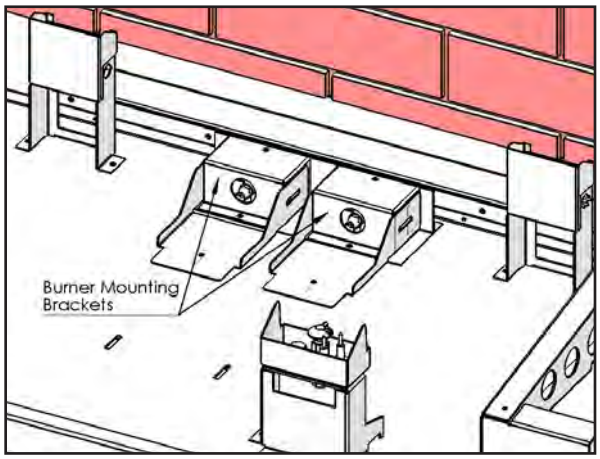


Figure 53: Burner Mounting Brackets.

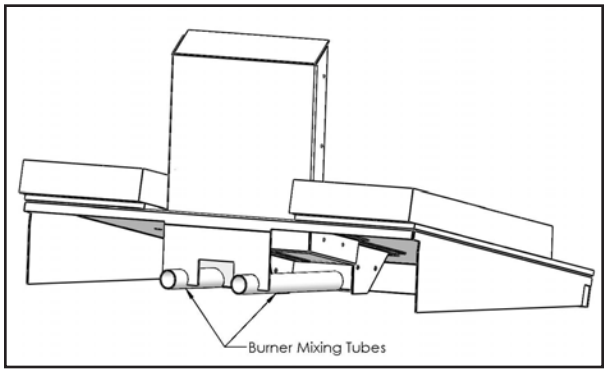


Figure 54: Burner Mixing Tubes

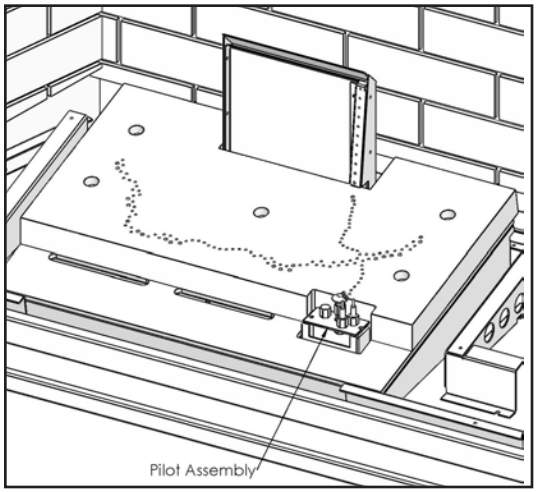


Figure 55: Log Burner Over Pilot Assembly.

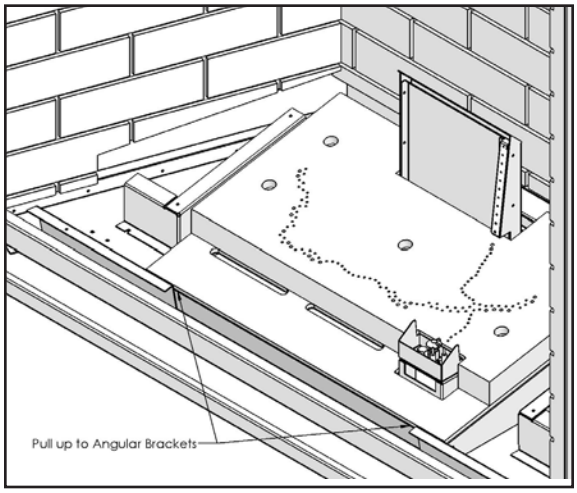


Figure 56: Log Burner in Place.

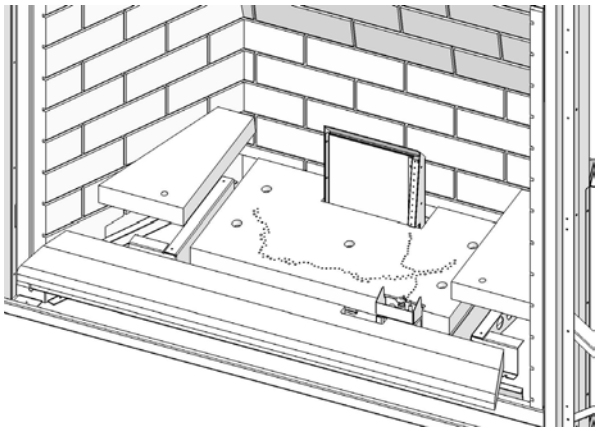


Figure 57: Burner Accents Pieces in Place.

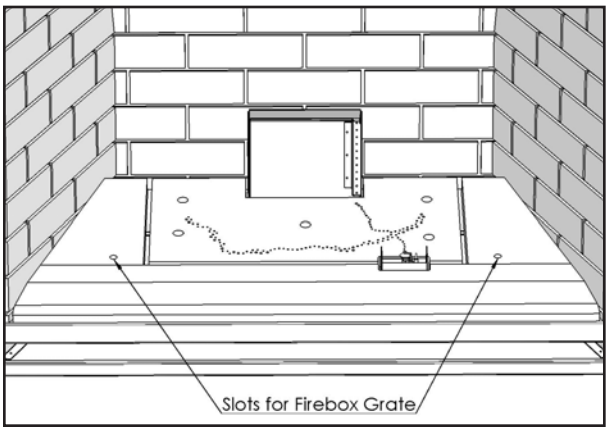


Figure 58: Slot for Firebox Grate.

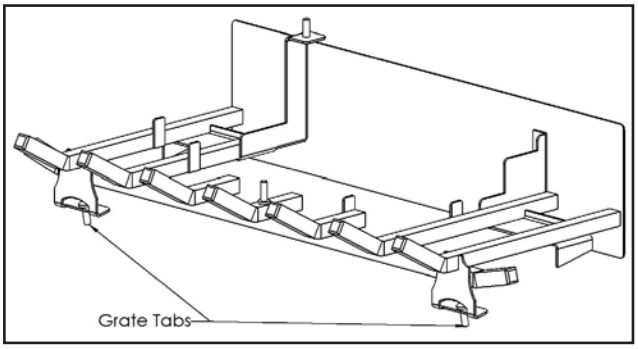


Figure 59: Tab on Firebox Grate.

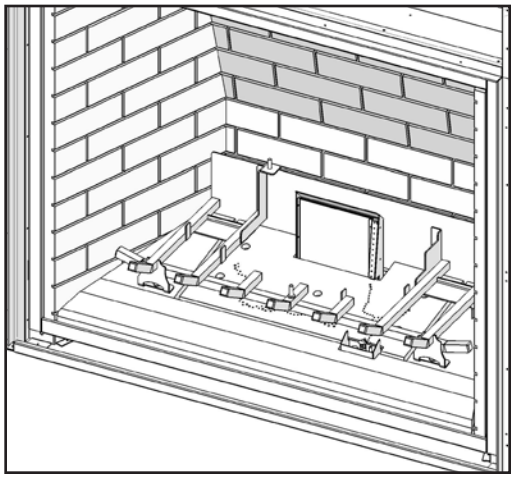


Figure 60: Firebox Grate in Place.

LOG SET INSTALLATION:

IMPORTANT: The paint on the logs may fade for the first 8-10 hours of burn time, but will come back to its color after the paint has cured. The paint is very delicate and handling them with care is necessary not to mark or smudge the paint.

1. Install Log 8. Insert the pin hole on the front end of log 8 into the pin tab locates at the center of the grate The rear end sits on the grate with the groove on the bottom of the log fitting onto the top of the grate rear left leg.



Figure 61a: Log 8 Rear End in Place



Figure 61b: Log 8 in Place

2. Install Log 7. Place the rear end of the log on the grate using the groove on the bottom of the log to index itself to the grate. The front end of log 7 rest against a guide on log 8.



Figure 62a: Log 7 Rear End in Place



Figure 62b: Log 7 Front End



Figure 62c: Log 7 in Place

3. Install Log 9. Insert the hole on the left side into the pin tab at the back of the grate. The right side self locates on log 7. Leave a 1/8" gap between the rear brick panel and the log.



Figure 63a: Log 9 Right Side in Place



Figure 63b: Log 9 in Place

4. Install Log 5. Place the log on top of the grate with the log locators on the left side of the grate inserted into the grooves on log 5.



Figure 64a: Log Locators and grooves



Figure 64b: Log 5 in Place

5. Install Log 6. Place the log on top of the grate with the log locators on the right side of the grate inserted into the grooves on log 6.



Figure 65a: Position Log 6



Figure 65: Log 6 in Place

6. Install Log 10. Place the end with number 10 against the notch on log 8 and rest the other end on the groove of log 7. The edge along the bottom of this log will index into the groove of Log 7.



Figure 66a: Log 10 Rear End in Place.



Figure 66b: Log 10 Front End in Place.



Figure 66b: Log 10 in Place.

7. Install Log 2. Position log 2 to sit on the left grate finger and lean the log back to rest on the flat depression on log 9.



Figure 67a: Position Log 2 on Grate Finger.



Figure 67b: Log 2 in Place.

8. Install Log 1. Position log 1 to sit on the right grate finger and lean the log back to rest on the flat depression on log 9.



Figure 68a: Rest Log 1 in Place.



Figure 68b: Log 1 in Place.

9. Install Log 4. Log 4 sits in between Log 2 and the grate finger and its body rests across the body of Log 10. There is a groove cut out on log 10 for log 4 to rest on.



Figure 69a: Place Log on Grate Finger.



Figure 69b: Log 9 in Place.

10. Install Log 3. Log 3 sits on the right grate finger. There is a notch across Log 6, which this log will locate into. The edge along the back of this log will index into the notch of Log 6.

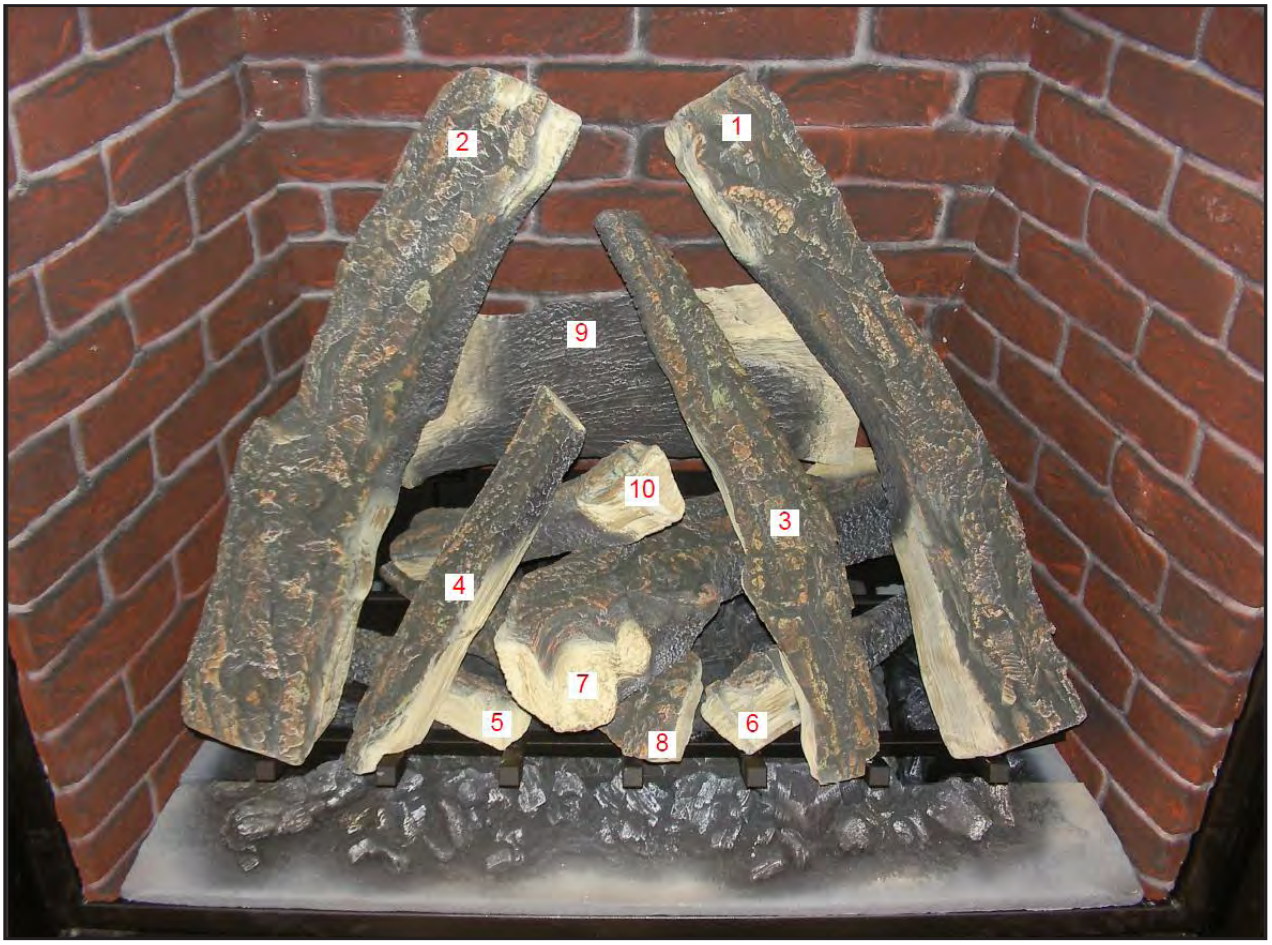


Figure 70a: Index Log 3 in Place



Figure 70b: Log 3 in Place

Installation Set-Up



NOTE: Variances in gas quality or log placement may cause some discoloration of the log set, or sooting to occur.

GLASS BURNER INSTALLATION:

1. In the bottom rear of the firebox there are two (2) gas orifices in a housing that facilitate the air shutter mechanisms and the Burner Mounting Brackets are above them (See Figure 71). There are two (2) mixing tubes underneath the back of the burner (see Figure 72). Lift the burner into the firebox with the back of the burner tilted downward. Keep the burner high enough at the front to clear the pilot assembly. Line up the mixing tubes with the holes in the burner mounting brackets and slowly lower the front of the burner over the pilot assembly (see Figure 73).

2. Pull the burner forward up to the angular brackets near the front of the firebox (see Figure 75). The burner rests on the floor of the firebox and is properly aligned against the two (2) front burner rests.

   IMPORTANT: If the burner is not far enough back to lower the burner behind these brackets, then the mixing tubes are not engaged in the air shutter. Failing to ensure the mixing tubes are located in the mixing tube support brackets may cause serious performance and or safety issues.

3. Place the glass tray over top of the burner top as shown in Figure 74. It simply rests over the top section of the burner.

4. In front of the pilot assembly, on the front edge of the burner is one burner port which helps in the lighting of the main burner (see Figure 75). The glass tray has one hole in the same position that allows the gas to flow to this location. Ensure the glass tray hole is properly positioned over the port in the burner.

5. The DV62 glass burner option is supplied with two (2) quantities of glass, black and white. There is enough of either to fill the burner, so you can decide whether to install all white, all black, or some type of mixture. Place crushd glass evenly in the burner tray and fill glass to the top untuil they are level with the 4 sides of the tray (example in Figure 76). Try to keep glass from falling in around the pilot assembly.

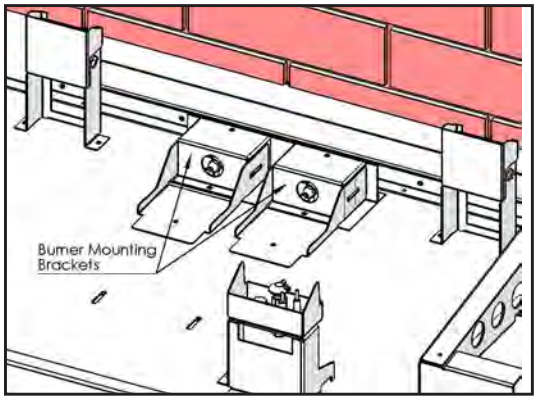


Figure 71: Burner Mounting Brackets

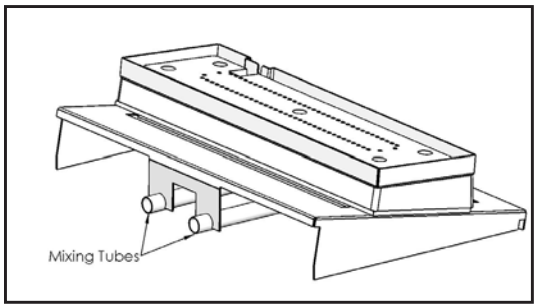


Figure 72: Mixing Tubes in Glass Burner.

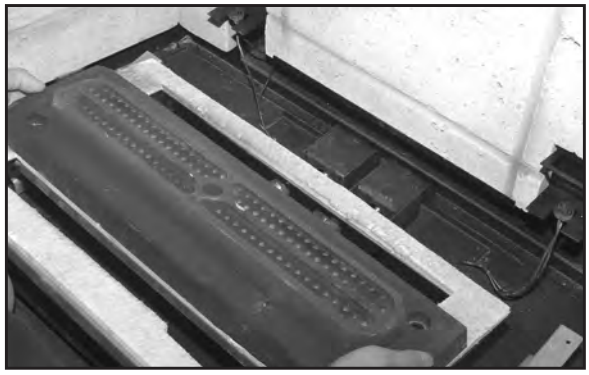


Figure 73: Placing Glass Burner.

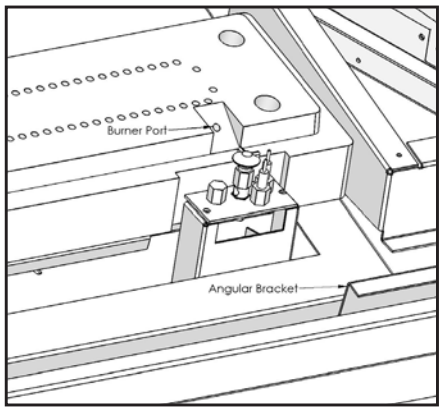


Figure 75: Glass Burner in Place

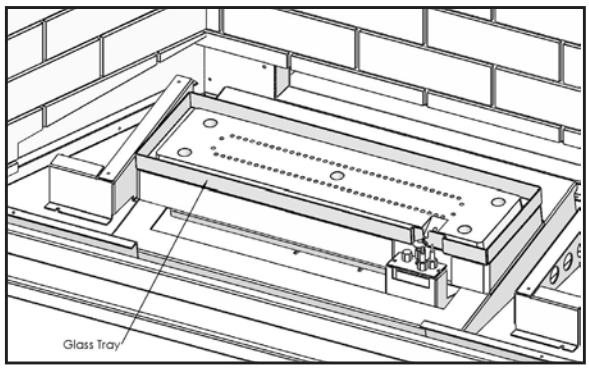


Figure 74: Glass Tray over Burner

6. Gently place the burner trim piece around the burner (see Figure 77). It sits on various support brackets and fits around the burner tray and up against the firebox liner. Figure 78 shows the burner trim in the correct position. Ensure a minimum ⅜" (8mm) gap is maintained around the burner glass tray (see Figure 79).
7. If the optional rock accent kit was purchased for the DV62, you can place the rocks in a random pattern around the glass tray. A few can straddle the 1/2" (13mm) gap around the glass tray. Try to keep them looking randomly placed. Keep from placing them in large piles as they need to be evenly distributed. Examples are shown in Figure 80.

   It is important that rock accents are not placed in front or over the pilot assembly. This may prevent the burner from lighting in a timely fashion or overheat the pilot assembly. Keep an area of about 3" (75mm) in front of the pilot light free from obstruction and rock accents (see Figure 81).

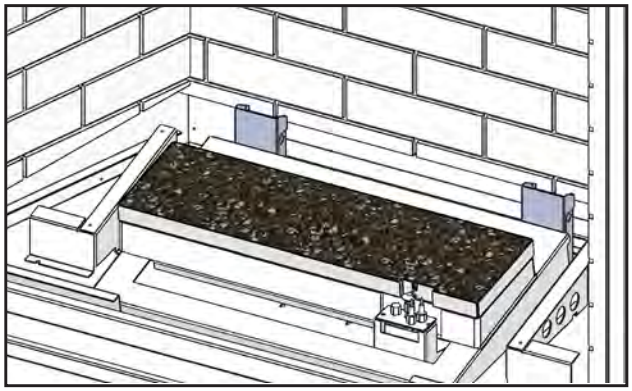


Figure 76: Glass Tray with Mixed Glass.



Figure 77: Burner Trim Being Placed.

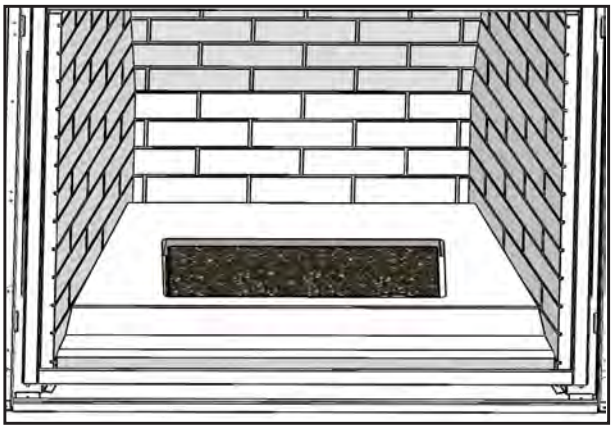


Figure 78: Burner Trim in Correct Position.



Figure 79: Proper Gap Between The Glass Tray and The Burner Trim

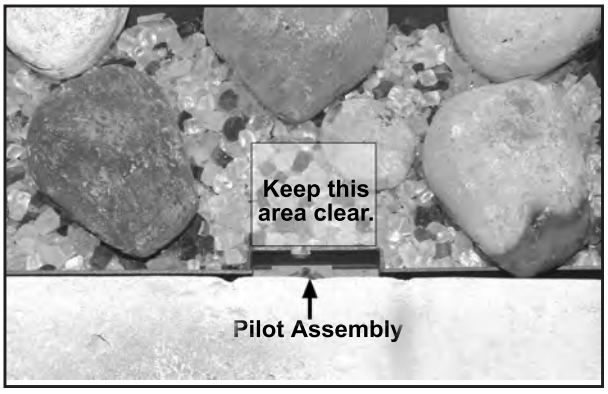


Figure 81: Keep Area in Front of Pilot Assembly Clear.



Figure 80: Rock Accents

PORCELAIN KIT INSTALLATION:

1. Install the Rear Firebox Liner. This panel rests on the Rear Brick Panel Support.
2. Install the Left Firebox Liner Panel; it sits on the bottom front edge of the firebox (see Figure 82), a support bracket at the lower rear of the firebox, and is held in by a retainer at the top of the firebox. Adjust the panel retainers as required.
5. Install the Top Panel by placing it on top of the Rear Panel and behind the Left Panel (see Figure 83). Hold it with one hand or have someone else hold it for you while you place the last panel. WARNING: If this panel falls from this location it will possibly break or the paint work will become chipped.
6. Place the Right Firebox Liner Panel in the same manner used for the Left Panel. The vertical edges of the left and right panels should line up with the front edges of the firebox sides. The side panels rest up against the back panel and hold the top panel in position.
7. Installation of Porcelain Kit for Glass Burner continue on with next step. Installation of Porcelain Kit for Log Burner go to step 14.
8. Install the Burner Assembly; refer to Step 1 & 2 of GLASS BURNER INSTALLATION.
9. Attach the Glass Burner Skirt to the Right Burner Cover Support using two (2) T-20 Torx screws supplied (see Figure 84) and do the same to the Left Burner Cover Support as you've done on the right side.

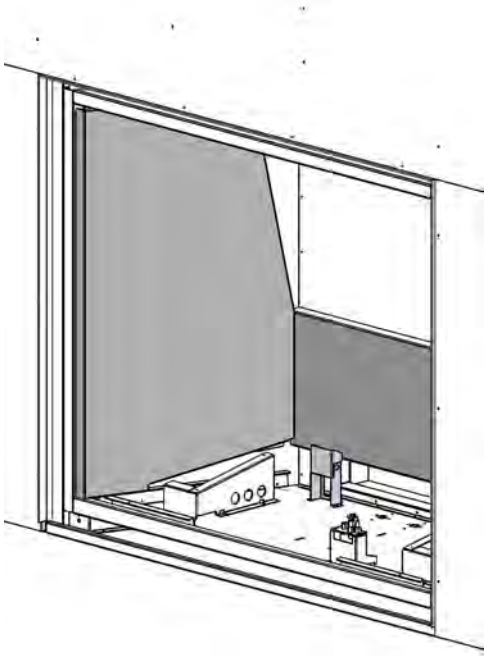


Figure 82: Rear & Left Porcelain Panels in Place.

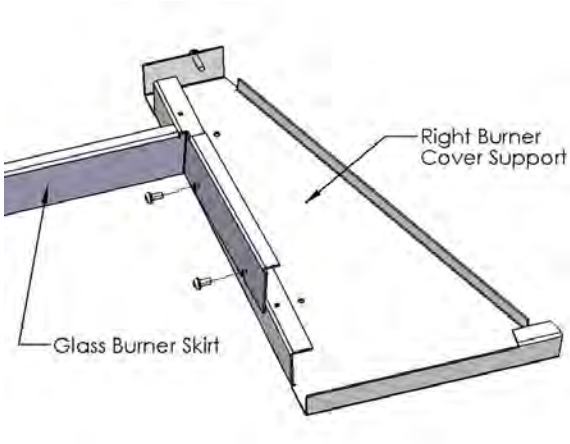


Figure 84: Porcelain Light Covers Close-up.

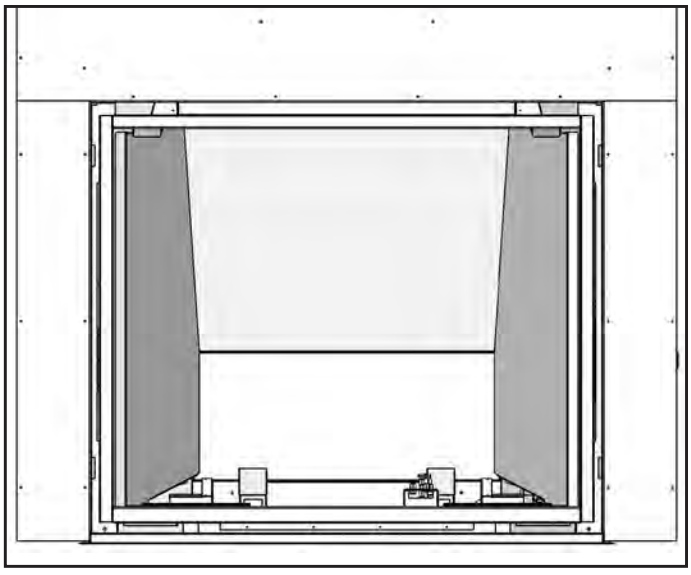


Figure 83: Top Porcelain Panel in Place.

10. Install the Glass Burner Cover Support Kit to the Right Burner Support using three (3) T-20 Torx screws supplied. Install the Support Kit to the Left Burner Cover Support as you've done on the right side.
11. Place one of the Permanent Magnets provided on the front edge of the Burner Cover Supports as shown in Figure 86.
12. The Burner Cover has two (2) slots, one the either side of the rear flange (refer to Figure 87). These slots fit over the two (2) studs in the burner cover support (refer to Figure 86) to keep it in place.

    The arrows in Figure 88 point at the studs that hold the Burner Cover in position. Place the Burner Cover over the pins and then once aligned with the holes, push the Burner Cover back towards the rear of the firebox. The front of the Burner Cover is held in place by the permanent magnets installed in step 11.
13. Install the Glass Tray and the Glass to complete the installation

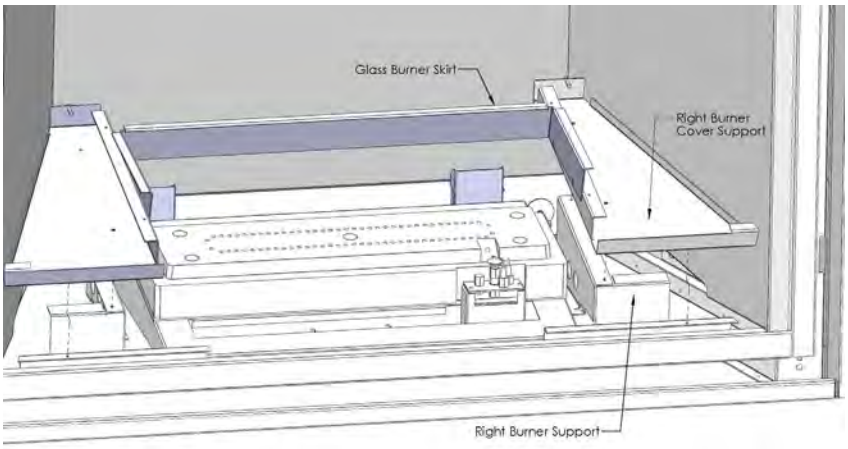


Figure 85: Installing Burner Cover Support Kit

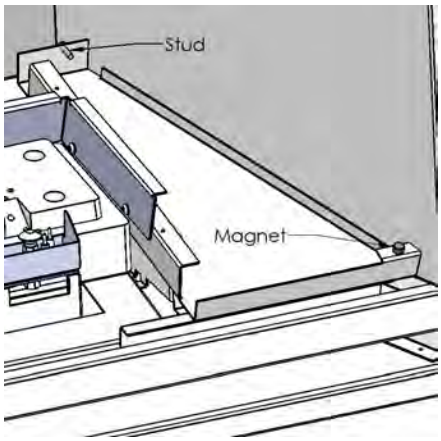


Figure 86: Permanent Magnet on Right Burner Cover Support.

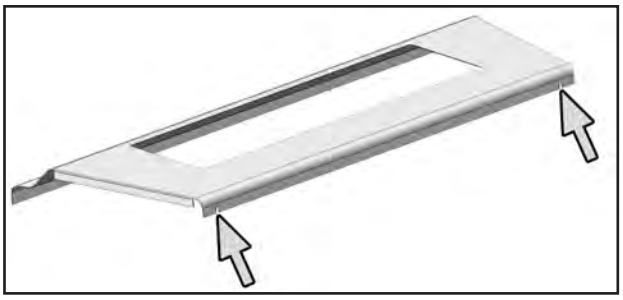


Figure 87: Slots in Back of Burner Cover.

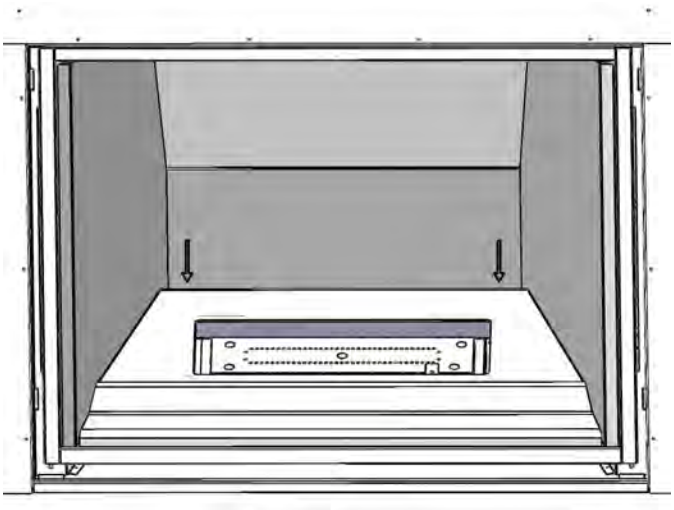


Figure 88 Installing Burner Cover.

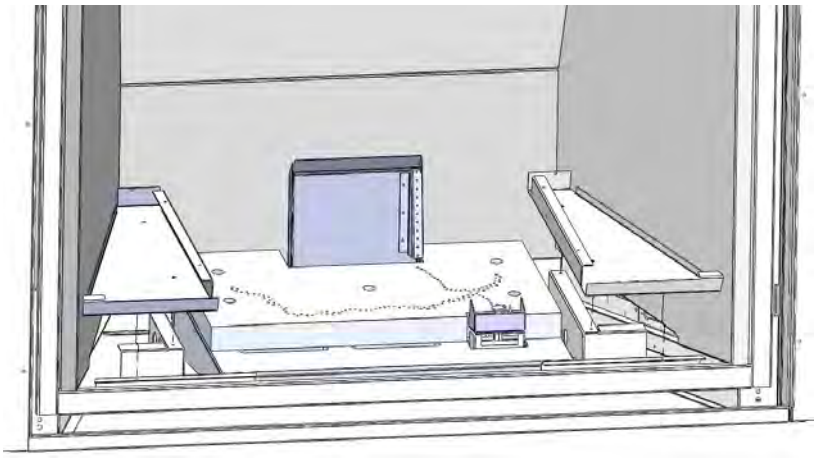


Figure 89: Installing Burner Cover Supports

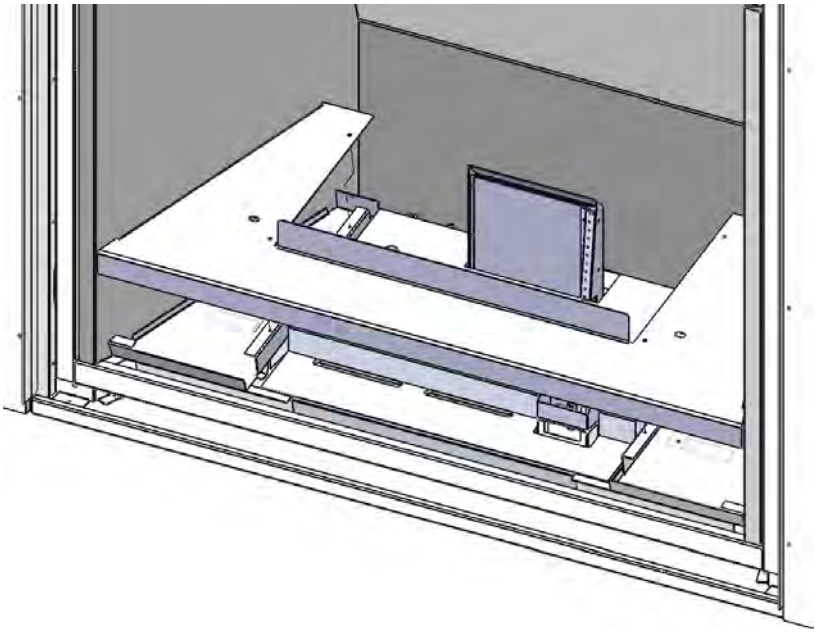


Figure 90: Installing The Log Burner Accent

14. Install the Burner Assembly; refer to Step 1 & 2 of LOG BURNER / EMBER BED INSTALLATION.
15. Install the Left and Right Burner Cover Support as shown in Figure 89. Each burner cover is installed using three (3) T-20 Torx screws supplied.
16. Install the Log burner accent to the burner cover supports with four (4) T-20 Torx as shown in Figure 90.
17. Install the Grate and the Logs Set to complete the installation.

OPTIONAL FRONT INSTALLATION:

Optional front is available for your fireplace. The fireplace front hang onto the front of your fireplace using four (4) hooks, one on each corner (refer to Figure 91). These hooks secure the front to the fireplace, providing for easy removal for service access to the fireplace and also to position the front the proper distance away from the glass door and the fireplace facing.

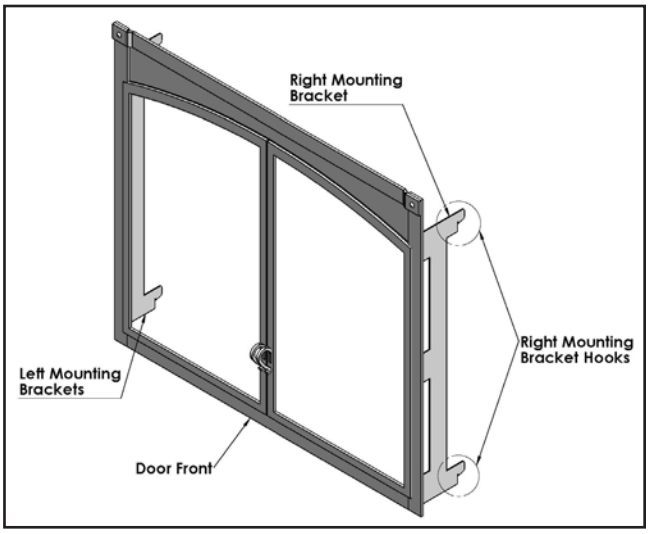


Figure 91: Optional Front Parts.

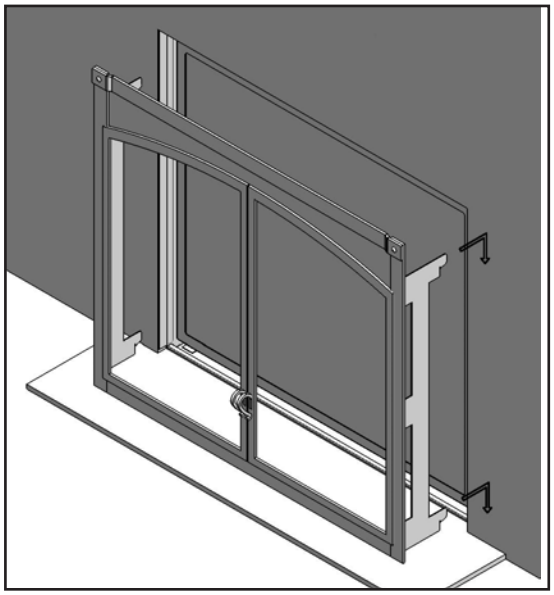


Figure 92: Optional Front Being Installed.

Install the front by lifting it parallel to the fireplace with the mounting bracket hooks pointing towards the fireplace. Slide the hooks all the way into the slots between the Glass Door Frame and the drywall flanges of the fireplace. Pull down on each corner to make sure the hook is engaged with the hanger. Refer to Figures 92.

IMPORTANT: Ensure that the minimum gap required between the Optional Front and wall of the unit is maintained (refer to Figure 93). Not maintaining the proper gap will cause the unit to run at elevated temperatures and result in an unsafe condition

The face should be cleaned before the fireplace is turned on for the first time.

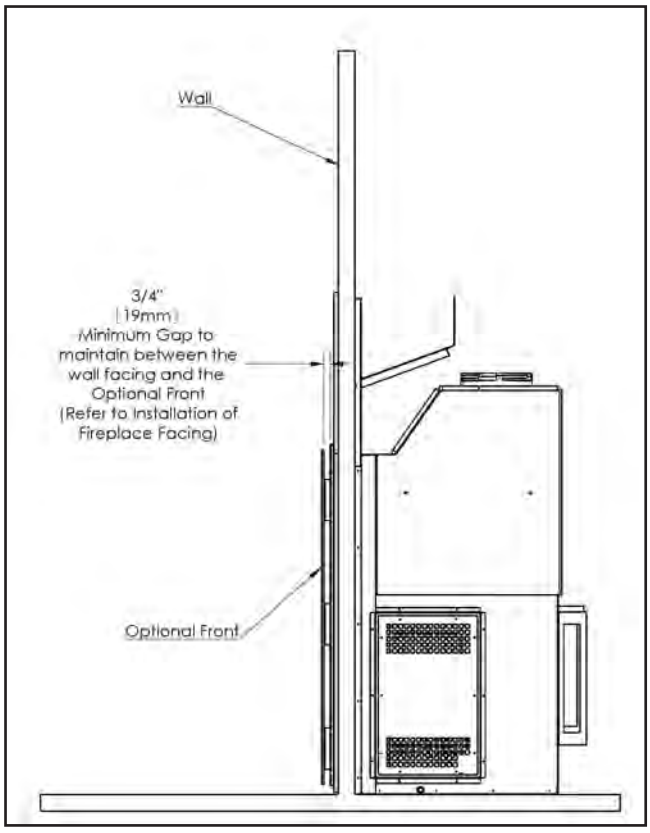


Figure 93: Optional Front Installed.

Wiring Harness

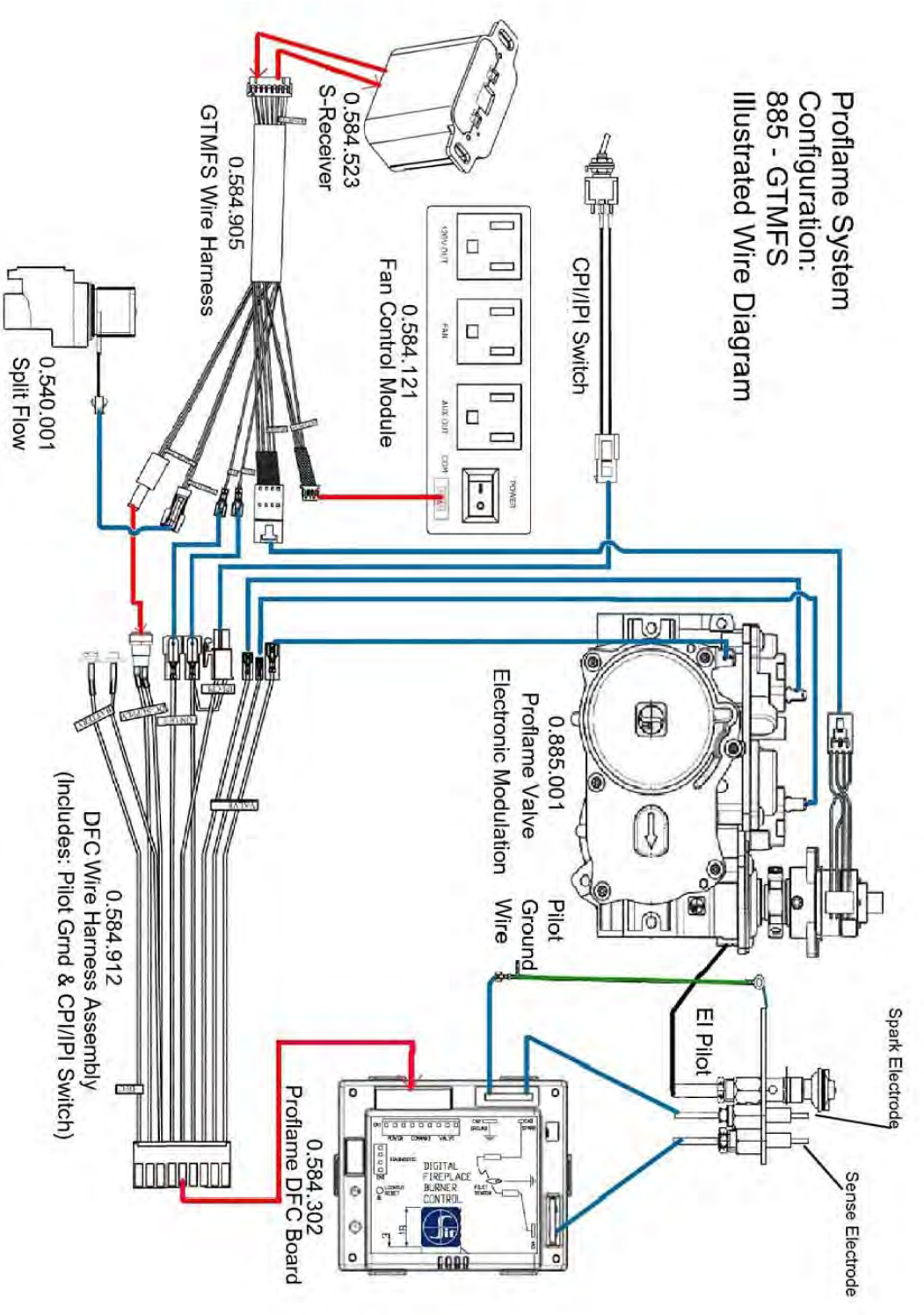


Figure 94: Wiring Harness.

Caution: Label all wires prior to disconnection when servicing controls, Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

1. Fail to ignite: If there is no positive ignition, the board will go into lock out and the LED will blink 3 times in intervals until the system is reset. See Figure 96 for LED location in the unit.
2. Low battery condition (<4V): the LED indicator will blink one (1) time in intervals.
3. Parasitic Pilot Flame: the LED indicator will blink two (2) times in intervals.
4. System Lock out: the LED indicator will blink three (3) times in intervals.

Additional Ignition Information

1. The Proflame DFC Board will try two (2) times for ignition.
2. Each try for ignition will last approximately 60 seconds.
3. The wait time between the two tries is approximately 35 seconds.

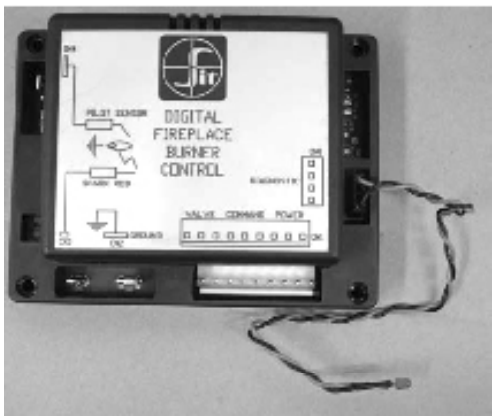


Figure 95: Proflame DFC Board with LED Indicator attached.

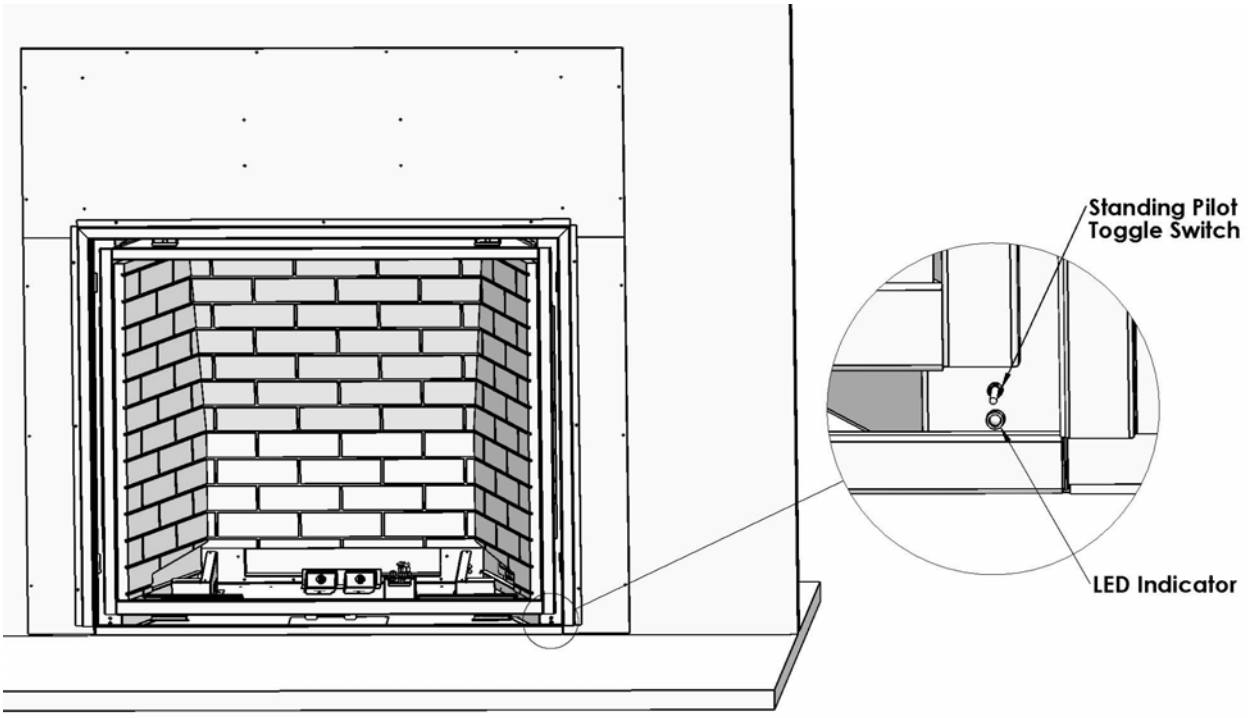


Figure 96: LED Indicator Location.

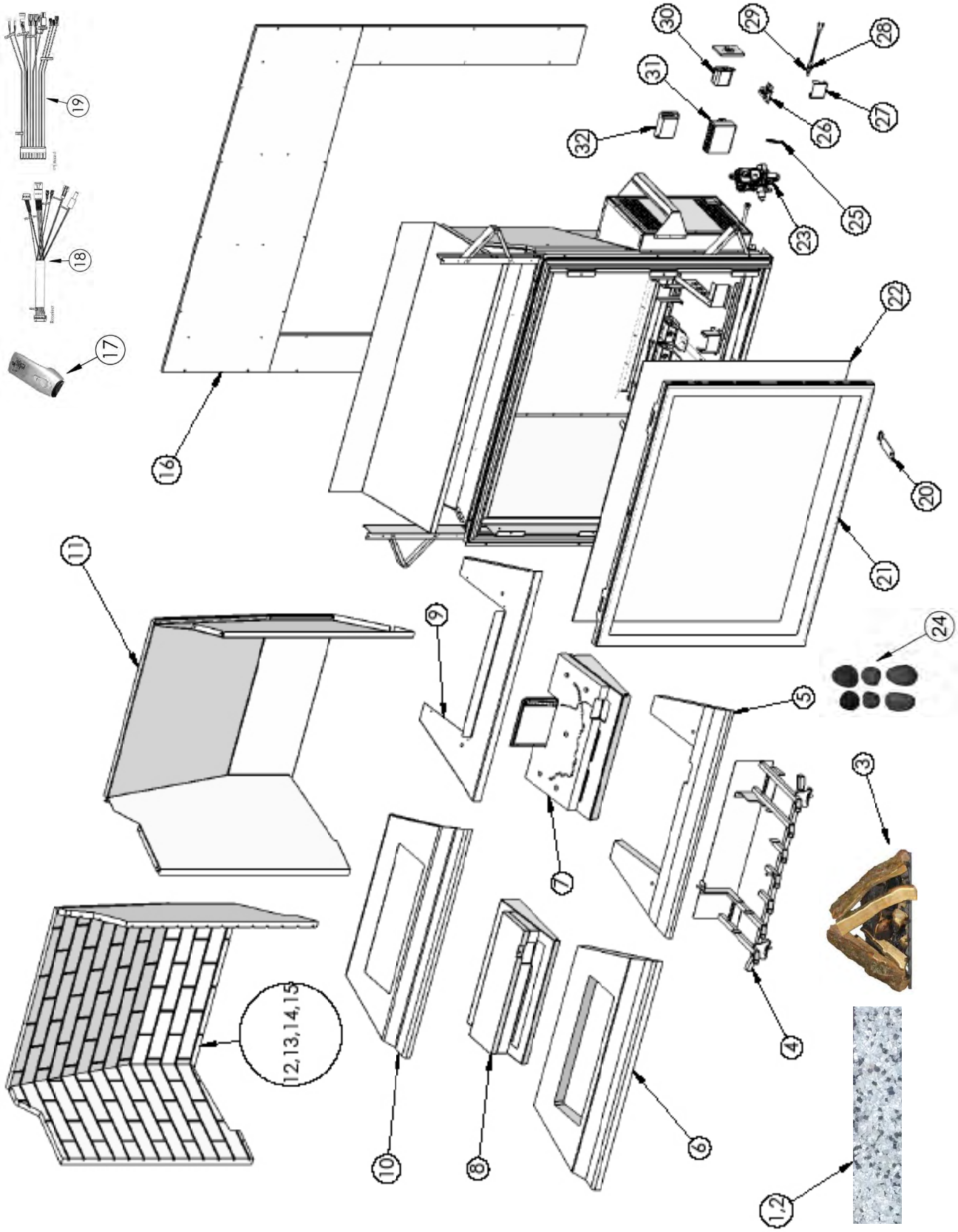
TROUBLESHOOTING

Problem	Possible Cause	Solution
Thermostat does not work	The pilot flame has gone out	· Turn it ON
	The On/Off switch is turn to OFF	
	The thermostat is set too high	· Set the thermostat to a lower temperature
No spark generation	Spark developes near the pilot assembly or could occur onboard	· Check pilot assembly wiring
		· Check for broken or poor connection from the sparker to the electrode
		· Check for the spark shorting or arcing at other locations
		· Check for defective sparker and spark electrode
No pilot flame ignition	No spark from the igniter	· See "no spark generation"
	Air in the gas line	· It takes a while for all the air to purge out of the pilot before gas can reach the pilot and ignite
	Pilot gas pressure dropout upon main burner gas valve opening	· Check gas mains supply and pressure
	No gas flow out of the pilot burner	· Check gas valve wirings and connections to the board
		· Check the pilot burner for obstruction
		· Check the wirings and connections between the pilot assembly and the board
		· Check the correct gas type settings on the valve and pilot burner assembly orifice
Pilot will not remain lit	Problem with Flame Sensor circuit	· Check for proper connection of the Flame Sensor to the DFC board
		· Check pilot for full flame impingement around Flame Sensor
		· If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage
		· Ensure the ground wire is properly attached to the pilot mounting bracket and that it is makes a good electrical connection.
	Restrictor setting	· Use the correct restrictor setting for the venting configuration
Remote control does not work	The pilot light has gone out	· See "Pilot will not remain lit"
	The remote is too far away from the heater	· Use the remote closer to the heater
	The remote control receiver is turned "OFF"	· Check the remote control instructions
	One of the two remote control or receiver batteries are dead	· Replace the batteries
No reaction to command	Receiver or transmitter batteries are low	· Replace the batteries
	A maximum number of failed ignitions or flame restorations have been reached.	· Remove any possible blocking conditions. See "locking conditions"
		· See how to reset the board from Lockout
	No communication between the remote control and the receiver	· Reprogram the transmitter to the receiver.
		· Follow the initializing system for the first time

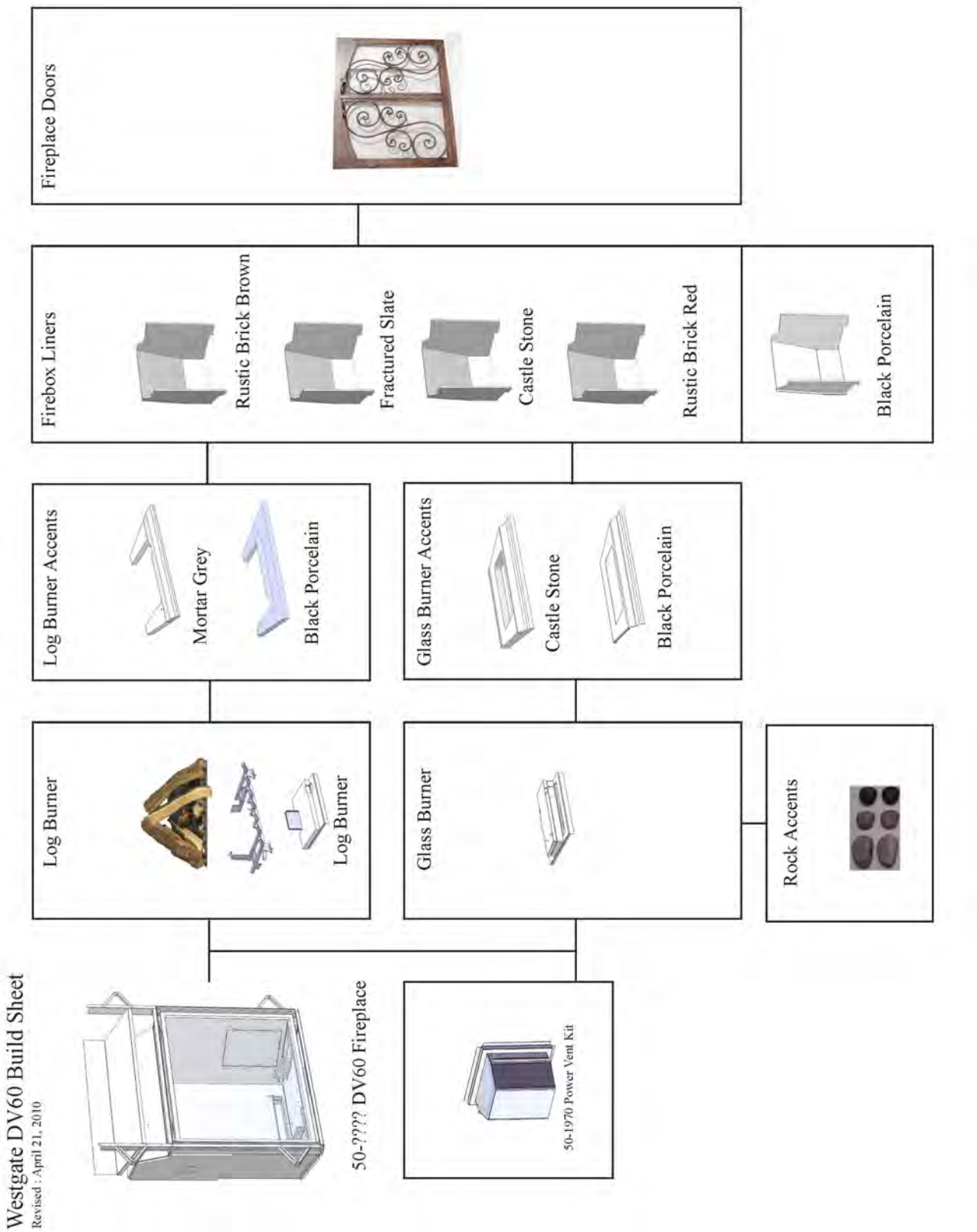
TROUBLESHOOTING

Problem	Possible Cause	Solution
Locking conditions	Reset the Proflame DFC board	· Turn the system off by pressing the ON/OFF button on the transmitter
		· After approximately 2 seconds press the ON/OFF button on the transmitter again.
		· In the manual flame control mode, use the down arrow button to reduce the flame to off, indicated by the word OFF displayed on the transmitter LCD screen.
		· Wait approximately 2 seconds and press the up arrow button, the ignition sequence will start.
		· With the transmitter off, move the slider switch on the receiver to the OFF position.
		· Wait approximately 2 seconds and move the receiver slider switch to the ON position.
Main burners will not start	The pilot flame has gone out	· See "Pilot will not remain lit"
	The remote control is not working correctly	· Replace the batteries
	The thermostat is disconnected or set too high	· Set the thermostat to a lower temperature
	Problem with thermopile circuit	· Check gas line pressure
		· Check wiring to thermostat for breaks
		· Check for flame impingement on thermopile
Flame lifting	Leak in vent pipe	· Check for leaks in vent connections
	Improper vent configuration	· Check vent configuration with manual
	Terminal may be re-circulating flue gases	· Check to see if terminal is on correctly
		· May need to install high wind termination cap.
		· Contact dealer
Blue Flames	The heater has just been started	· Normal during start up: flame will yellow as the fireplace heats up
	Improper air shutter adjustment	· Adjust air shutter – contact your dealer
Glass fogs up	Normal condition: after the appliance warms up the glass will be clear.	**Due to additives in gas, glass may get hazy during operation** Clean as needed.
Flames are burning "dirty" or sooting	The logs or glasses are placed incorrectly	· Check log positioning
		· Check level of glasses layout
	Improper air shutter adjustment	· Increase primary air by opening the air shutter and/or by opening the vent restrictor
		· Check for proper venting and blockage of the vent termination
		· See also "Burners will not remain lit"
	Incorrect rating input	· Check manifold pressure and clock input rating for over-firing

Parts Diagram



Parts Diagram - Options



Parts List

Item	Number	Items
1	50-1980	Crushed Glas - White
2	50-1984	Crushed Glas - Black
3	50-2234	Log Set
4	50-2233	Log Grate
5	50-2235	Log Burner Accent - Mortar Grey
6	50-2238	Glass Burner Accent - Castle Stone
7	50-2232	Burner Log / Ember Bed
8	50-2231	Burner Glass Media
9	50-2236	Log Burner Accent - Black Porcelain
10	50-2237	Glass Burner Accent - Black Porcelain
11	50-2239	Panel Set - Black Porcelain
12	50-2240	Panel Set - Rustic Brick Brown
13	50-2241	Panel Set - Rustic Brick Red
14	50-2242	Panel Set - Fractured Slate
15	50-2243	Panel Set - Castle Stone
16	50-2315	Fireplace Facing Kit
17	50-2006	Remote Control Transmitter
18	50-2008	Wire Harness - Receiver
19	50-2009	Wire Harness - IPI
20	50-2001	Door Tool
21	50-2311	Door Assembly
22		Glass Door
23	50-2314	Valve Assembly (50-2004)
24	50-1939	Rock Accents
25		Wire Loom Gasket
26	50-2010	Pilot Assembly
27	50-2319	Light Bulb Cover
28	50-2316	Halogen Socket Light & Wire
29	50-2309	Light Bulbs (Set 2)
30	50-2007	Remote Receiver
31	50-2031	Fan Control Module (50-1572)
32	50-2005	Digital Fireplace Controller

Item	Number	Items
	50-2245	Fireplace Door Front - AC
	50-2246	Fireplace Door Front - Black
	50-1970	Power Vent Kit
	50-2305	Vent Reducer 6” x 8 5/8” to 5” x 8”
	50-2308	Log Burner Kit
	50-2312	Owners Manual
	50-2313	Technical Manual
	EC-019	Pilot Orifice (Injector) NG Threaded
	30-043	SIT Pilot 1/8” Tube w/End Frerules
	50-1983	Pilot Flame Sensor (Long Ceramic)
	50-1984	Pilot Bypass Swith Assembly
	50-5317	Light Circuit Wire Harness
	50-2320	Dual Bulb Door Gasket (20 ft)
	20-034	Halogen Cycle (Pin Socket)
	50-2310	Valve Access Panel Gasket

WARRANTY

Sherwood Industries Ltd. is the manufacturer of the Westgate line of heating products. At Sherwood Industries, our commitment to the highest level of quality and customer service is the most important thing we do. Each Westgate stove is built on a tradition of using only the finest materials and is backed by our Exclusive Lifetime Limited Warranty to the original purchaser. With Westgate, you're not just buying a fireplace or stove, you're buying a company with years of unequalled performance and quality.

Limited Lifetime Warranty:
Under this warranty, Sherwood Industries Ltd. covers the fireplace or stove body and accessories against defects in materials and workmanship, for part repair or replacement for the first seven (7) years and limited labour for the first two (2) years to the original purchaser. This Warranty covers: Firebox, Heat Exchanger, Steel Firebox Panels, Ceramic Logs & Panels, Burner, Ceramic Glass, Pedestals, Panels and Legs. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited Two (2) Year Warranty:
Under this warranty, Sherwood Industries Ltd. covers: Gas Assembly, Blower, Blower control, Temperature Sensors and Wire Harness against defects in materials and workmanship, for part repair or replacement for the first two (2) years and limited labour for the first two (2) years to the original purchaser. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited One (1) Year Warranty:
Under this warranty, Sherwood Industries Ltd. covers all exterior surface finishes against defects in materials and workmanship, for part repair or replacement and limited labour for the first (1) year to the original purchaser. Please see the exclusions and limitations section below as certain restrictions and exclusions apply to this warranty.
Here is how our Warranty works
If you have any concerns with your Westgate product, please contact the dealer where you purchased the fireplace or stove. Your dealer shall make all claims under this warranty in writing.

To the Dealer
When filling out a warranty claim, please complete the following information on an official warranty claim form:
Customer information: Name, address and telephone number of purchaser and date of purchase.
Dealer information: Date of installation, name of installer and dealer, serial number of the appliance, nature of complaint, defects or malfunction, description and part numbers of any parts replaced.

To the Distributor
Sign and verify that work and information are correct.

Exclusions and Limitations:
1. This Warranty does not cover tarnish, discoloration or wear on the plating or paint.
2. This Warranty excludes wear and tear or breakage caused by cleaning, moving or service on log set and panels.
3. A qualified installer must install this stove or fireplace. This Limited Warranty covers defects in materials and workmanship only if the product has been installed in accordance with local building and fire codes; in their absence, refer to the owner's manual. If the product is damaged or broken as a result of any alteration, willful abuse, mishandling, accident, neglect, or misuse of the product, the Limited Warranty does not apply.
4. The stove must be operated and maintained at all times in accordance with the instructions in the Owner's Manual. If the unit shows signs of neglect or misuse, it is not covered under the terms of this Warranty policy. Performance problems due to operator error will not be covered by the Limited Warranty policy.
5. As this is a heating appliance, some changes in colour of surface finishes may occur. This is not a flaw and as such is not covered under this warranty.
6. Some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, is not covered under this Limited Warranty.
7. Misuse includes over-firing. Over-firing this appliance can cause serious damage and will nullify the Limited Warranty.
8. The Limited Warranty will cover glass thermal breakage only and will not cover misuse of the stove glass, including but not limited to glass that is struck, has surface contaminates or has had harsh or abrasive cleaners used on it.
9. This warranty does not cover products made or provided by other manufacturers and used in conjunction with the operation of this stove without prior authorization from Sherwood Industries Ltd. The use of such products may nullify the Limited Warranty on this stove. If unsure as to the extent of this Limited Warranty, contact your authorized Westgate dealer before installation.
10. Sherwood Industries Ltd. will not be responsible for inadequate performance caused by environmental conditions.
11. The Limited Warranty does not cover installation and operational related problems caused by downdrafts or spillage caused by environmental conditions. Environmental conditions include but are not limited to nearby trees, buildings, roof tops, wind, hills, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures or other influences caused by mechanical systems such as furnaces, fans, clothes dryers etc.

WARRANTY

12. The Limited Warranty is void if:
    a) The stove has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
    b) The stove is subject to submersion in water or prolonged periods of dampness or condensation.
    c) Any damage to the unit, combustion chamber or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
    c) Salt air in coastal areas or high humidity can be corrosive to the finish; these environments can cause rusting. Damage caused by salt air or high humidity is not covered by the Limited Warranty.
13. Exclusions to the Limited Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, alteration, or act of God.
14. The Limited Warranty does not cover damage caused to the fireplace or stove while in transit. If this occurs, do not operate the stove and contact your courier and/or dealer.
15. Limited Warranty does not extend to or include firebox paint, door or glass gaskets with damage caused by normal wear and tear, or exterior paint discoloration or chipping, worn gaskets, etc.
16. The Limited Warranty does not include damage to the unit caused by abuse, improper installation, or modification of the unit.
17. Damage to plated surfaces caused by fingerprints, scratches, melted items, or other external scores and residues left on the plated surfaces from the use of abrasive cleaners or polishes is not covered in this warranty.
18. The Limited Warranty does not cover tarnish, discoloration or wear on the plated surfaces.
19. The paint on the Metal Brick Liner may peel. This is due to the extreme conditions applied to the paint during normal usage. It is not a flaw and is not covered under warranty.
20. Sherwood Industries Ltd. is free of liability for any damages caused by the fireplace or stove, as well as inconvenience expenses and materials. The Limited Warranty does not cover incidental or consequential damages.
21. The Limited Warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Westgate fireplace or stove without the express written permission of Sherwood Industries Ltd. and bearing a Sherwood Industries Ltd. label of approval.
22. Any statement or representation of Westgate products and their performance contained in Westgate advertising, packaging literature, or printed material is not part of the Limited Warranty.
23. The Limited Warranty is automatically voided if the fireplace or stove's serial number has been removed or altered in any way. If the stove is used for commercial purposes, it is excluded from the Limited Warranty.
24. No dealer, distributor, or similar person has the authority to represent or warrant Westgate products beyond the terms contained within the Limited Warranty. Sherwood Industries Ltd. assumes no liability for such warranties or representations.
25. Sherwood Industries Ltd. will not cover the cost of the removal or re-installation of the stove, hearth, facing, mantels, venting or other components.
26. Labour to replace or repair items under this Limited Warranty will be covered per our warranty service fee reimbursement schedule. Labour rates are set per component and as such total labour costs may not be covered.
27. Sherwood Industries Ltd. is not liable for freight or labour on any stove replaced in-field and is not liable for travel costs for service work. In the event of in-home repair work, the customer will pay any in-home travel fees or service charges required by the Authorized Dealer.
28. At no time will Sherwood Industries Ltd. be liable for any consequential damages which exceed the purchase price of the unit. Sherwood Industries Ltd. has no obligation to enhance or modify any stove once manufactured (example: as a stove evolves, field modifications or upgrades will not be performed).
29. This Limited Warranty is applicable only to the original purchaser and it is non-transferable.
30. This warranty only covers Westgate products that are purchased through an authorized Westgate dealer.
31. If for any reason any section of the Limited Warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
32. The Limited Warranty is the only warranty supplied by Sherwood Industries Ltd., the manufacturer of the stove. All other warranties, whether expressed or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the Limited Warranty.
33. Sherwood Industries Ltd. and its employees or representatives will not assume any damages, either directly or indirectly, caused by improper usage, operation, installation, servicing or maintenance of this stove.
34. Sherwood Industries Ltd. reserves the right to make changes without notice. Please complete and mail the warranty registration card and have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
35. Sherwood Industries Ltd. is responsible for stocking parts for a maximum of seven (7) years after discontinuing the manufacture or incorporation of the item into its products. An exception to this would be if an OEM supplier is not able to supply a part.

INSTALLATION DATA SHEET

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

NAME OF DEALER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MODEL:_____

SERIAL NUMBER:_____

DATE OF PURCHASE: _____ (dd/mm/yyyy)

DATE OF INSTALLATION:_____(dd/mm/yyyy)

☐ NATURAL GAS (NAT) ☐ PROPANE(LPG)

INLET GAS PRESSURE:_____in wc

MAIN BURNER ORIFICE:_____# DMS

PILOT ORIFICE #_____OR_____in diam.

INSTALLER'S SIGNATURE:

_____

NAME OF INSTALLER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
July 01 2010
www.westgatefireplaces.com
C-12283