

# ALBANY

**Model #ABY**

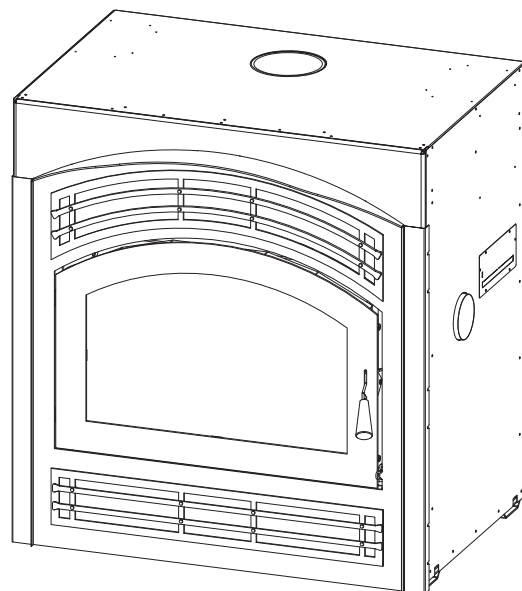
**Zero Clearance Factory Built Fireplace**

English and French installation manuals are available through your local dealer. Visit our website [www.kozyheat.com](http://www.kozyheat.com).

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez [www.kozyheat.com](http://www.kozyheat.com).



We suggest 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.



## ⚠ WARNING:

**Read instructions carefully before installation. Failure to install this fireplace correctly can cause serious structural and fire hazards and may void your warranty.**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this fireplace or any other appliance.
- Do not overfire.
- For use with solid wood fuel only.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.



## WARNING



### **HOT SURFACES!**

Glass and other surfaces are hot during operation AND cool down.

**Hot glass will cause burns.**

- DO NOT touch glass until its cooled
- NEVER allow children to touch glass
- Keep children away
- CAREFULLY SUPERVISE children in the same room as the fireplace
- Alert children and adults to hazards of high temperatures
- Keep clothing, furniture, draperies and other flammable materials away

**INSTALLER: Leave this manual with the appliance.  
CONSUMER: Retain this manual for future reference.**



Read this manual before installation or operating this appliance.  
Please retain this owner's manual for future reference.

## CONGRATULATIONS!

*We welcome you as a new owner of a Kozy Heat fireplace. Kozy Heat products are designed with superior components and materials, and assembled by trained craftsmen who take pride in their work. To ensure you receive a quality product, the complete fireplace is thoroughly inspected before packaging. Our commitment to quality and customer satisfaction has remained the same for over 40 years. We offer a complete line of gas and wood fireplaces, along with stylish accessories to complement any decor. Adding a fireplace is one of the best ways to increase the value of your home, and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat fireplace.*

Jim Hussong  
President



Dudley Hussong  
Board Chairman



### Homeowner Reference Information

We recommend you record the following information:

Model Name: \_\_\_\_\_

Date purchased/installed: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Location of fireplace: \_\_\_\_\_

Dealership Purchased from: \_\_\_\_\_

Dealer phone: \_\_\_\_\_

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# TABLE OF CONTENTS

|                                                     |           |                                                       |           |
|-----------------------------------------------------|-----------|-------------------------------------------------------|-----------|
| <b>TABLE OF CONTENTS .....</b>                      | <b>5</b>  | 6.2 Approved Chimney Systems.....                     | 26        |
| <b>1.0 INTRODUCTION .....</b>                       | <b>7</b>  | 6.3 Anchor Plate Installation.....                    | 26        |
| 1.1 Appliance Certification .....                   | 7         | 6.4 Chimney Location and Considerations.....          | 27        |
| 1.2 California Proposition 65 Warning .....         | 7         | 6.5 Chimney Installation.....                         | 29        |
| 1.3 Safety Information.....                         | 7         | <b>7.0 FIREPLACE SETUP.....</b>                       | <b>31</b> |
| 1.4 Installation Overview .....                     | 7         | 7.1 Firebrick Installation .....                      | 31        |
| <b>2.0 SPECIFICATIONS .....</b>                     | <b>8</b>  | 7.2 Grill Set Installation and Removal .....          | 32        |
| 2.1 Btu & Efficiency Specifications .....           | 8         | 7.3 Door Handle Installation .....                    | 32        |
| 2.2 Electrical Specifications .....                 | 8         | 7.4 Door Seal Alignment and Adjustment.....           | 33        |
| 2.3 Fireplace Dimensions .....                      | 9         | <b>8.0 FIREWOOD SELECTION AND CONSIDERATIONS.....</b> | <b>35</b> |
| <b>3.0 INSTALLATION PLANNING.....</b>               | <b>10</b> | 8.1 Materials that should not be burned.....          | 35        |
| 3.1 Fireplace Placement Clearance Requirements..... | 10        | 8.2 Preparing and Purchasing Firewood.....            | 35        |
| 3.2 Zone Heating.....                               | 10        | <b>9.0 FIREPLACE OPERATION.....</b>                   | <b>36</b> |
| 3.3 Moving the Appliance.....                       | 10        | 9.1 Fireplace Safety Information.....                 | 36        |
| 3.4 Nailing Flange Assembly and Installation.....   | 12        | 9.2 Initial Fireplace Operation .....                 | 36        |
| 3.5 Steel Framing Assembly Installation.....        | 13        | 9.3 Building a Fire.....                              | 36        |
| 3.6 Clearances to Combustibles .....                | 14        | 9.4 Maintaining a Wood Fire .....                     | 37        |
| 3.7 Wall Enclosure Rough Opening .....              | 15        | 9.5 How to Operate the Albany Fireplace .....         | 38        |
| 3.8 Hearth Extension .....                          | 16        | <b>10.0 MAINTENANCE REQUIREMENTS.....</b>             | <b>39</b> |
| 3.9 Alternate Floor Protection Material.....        | 17        | 10.1 Ash Disposal .....                               | 39        |
| 3.10 Combustion Air Duct Pipe.....                  | 18        | 10.2 Creosote - Formation and Need for Removal.....   | 39        |
| <b>4.0 FACING AND FINISHING.....</b>                | <b>20</b> | 10.3 Chimney Fire .....                               | 39        |
| 4.1 Facing and Finishing Requirements .....         | 20        | 10.4 Glass Information .....                          | 39        |
| <b>5.0 OPTIONAL FAN INSTALLATION .....</b>          | <b>24</b> | 10.5 Door Replacement .....                           | 40        |
| 5.1 #600-1 Optional Fan Kit.....                    | 24        | <b>11.0 TROUBLESHOOTING.....</b>                      | <b>41</b> |
| <b>6.0 INSTALLATION .....</b>                       | <b>26</b> | <b>12.0 REPLACEMENT PARTS .....</b>                   | <b>42</b> |
| 6.1 Chimney Requirements.....                       | 26        | <b>LIMITED 20 YEAR WARRANTY .....</b>                 | <b>44</b> |



# 1.0 INTRODUCTION

## 1.1 Appliance Certification

Laboratory: PFS in Cottage Grove, Wisconsin, USA

Standards:

UL 127-2015 (R2016) and CAN/ULC S610:2018 Safety Standards for U.S. and Canadian installations.

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cord wood.

## 1.2 California Proposition 65 Warning



**WARNING:** This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 1.3 Safety Information

**WARNING: THIS FIREPLACE HAS NOT BEEN TESTED WITH AN UNVENTED GAS LOG SET. TO REDUCE THE RISK OF FIRE OR INJURY, DO NOT INSTALL AN UNVENTED GAS LOG SET INTO THIS FIREPLACE.**

This fireplace installation must conform with local building codes, or in the absence of local codes, with the NFPA 211 Standard for Chimneys, Fireplaces, and Vents.

Installation and repair should only be performed by a qualified installer.

This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

**CAUTION:** This appliance requires the need for an adequate supply of outside air for combustion. Ensure there is enough ventilation air for safe operation of all fuel burning appliances in the home at the same time. Starving appliances for air can cause severe back drafting or negative pressure.

Do not use any makeshift components or any components not specified for use with this appliance. If you modify it or any of its components, you will void the warranty and you may possibly cause a fire hazard.

**CAUTION:** Check building codes prior to installation.

- Installation **MUST** comply with local, regional, state, and national codes and regulations.
- Consult insurance carrier, local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

It is required in some jurisdictions to install smoke and carbon monoxide detectors where heaters are installed. Install at least one smoke detector on each floor of your home to ensure your safety. It should be located away from the wood appliance and close to the sleeping areas. Locating a smoke detector too close to a wood appliance can cause the smoke detector alarm to sound if a puff of smoke is emitted while the wood appliance door is open during reloading. Follow the smoke detector manufacturers placement, installation, and maintenance instructions.

## 1.4 Installation Overview

**NOTE:** The qualified installer should follow the procedure best suited for the installation.

1. If masonry (optional) is to be used, prepare the foundation for the masonry load. A lintel is required to support the added weight above the fireplace.
2. Frame an opening for the fireplace, allowing for vent installation and type of installation (corner, flat wall application).
3. Install optional hearth.
4. Install optional heat duct venting.
5. Install any electrical wiring.
6. Install fireplace into framing.
7. Attach combustion air pipe.
8. Install chimney.
9. Install desired facing material.
10. Install mantel.
11. Install optional fan.
12. Install firebrick.
13. Install door components and grills.
14. Install any optional decorative accessories.

## 2.0 SPECIFICATIONS

---

### 2.1 Btu & Efficiency Specifications

|                                                                                                                                                                                                                                                            |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| EPA Certification #                                                                                                                                                                                                                                        | 214-19               |
| EPA Certified Emissions                                                                                                                                                                                                                                    | 1.22 grams per hour  |
| LHV Tested Efficiency                                                                                                                                                                                                                                      | 70.6%                |
| HHV Tested Efficiency                                                                                                                                                                                                                                      | 66.0%                |
| Burn time (length of high fire test / low fire test)                                                                                                                                                                                                       | 2 - 9 hours          |
| EPA Btu Output                                                                                                                                                                                                                                             | 12,850-36,231 Btu/hr |
| *Peak Btu/hour Output                                                                                                                                                                                                                                      | 49,133 Btu/hr        |
| **Optimum Efficiency                                                                                                                                                                                                                                       | 73.32                |
| Fuel                                                                                                                                                                                                                                                       | Cord wood            |
| *A peak BTU out of the appliance is calculated using the maximum first hour burn rate from the High EPA Test and the BTU content of cordwood times the efficiency.                                                                                         |                      |
| **Optimum efficiency is calculated using the medium fire test burn data, BTU content of the cordwood, and the best case moisture content of the cordwood.                                                                                                  |                      |
| This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual. |                      |

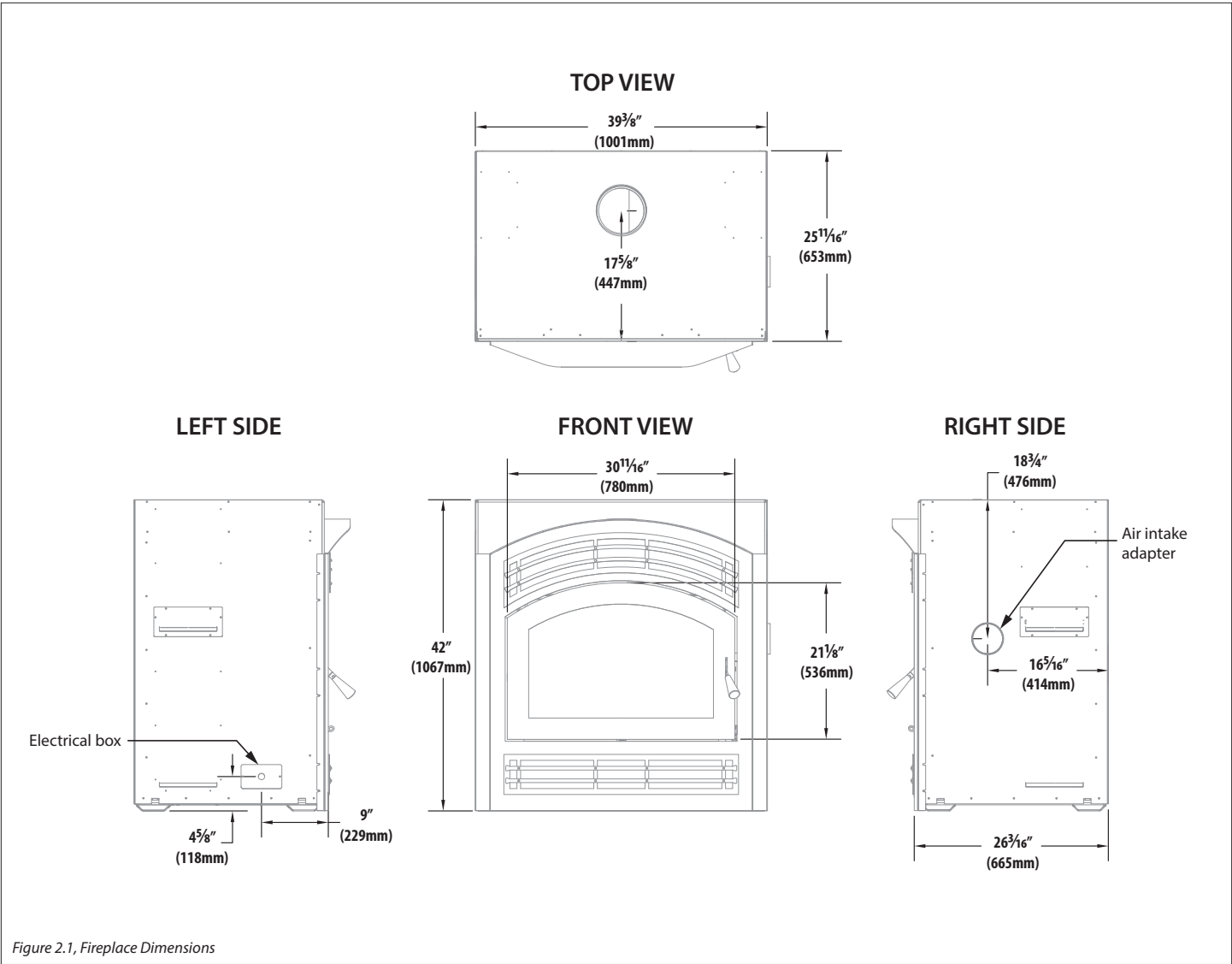
### 2.2 Electrical Specifications

Code approved line voltage wiring 14 gauge or better must be used when wiring the optional #600-1 fan kit assembly. Refer to local codes for specific requirements.

This appliance must be electrical grounded and connected with local codes, or in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70 Current Edition*, or the *Canadian Electrical Code CSA C22.1*.



2.3 Fireplace Dimensions



## 3.0 INSTALLATION PLANNING

### 3.1 Fireplace Placement Clearance Requirements

**WARNING:** Follow all instructions and clearances as outlined throughout this manual.

See Figure 3.2, Placement Clearance Requirements on page 11 for illustration.

- Location of doors and windows on all floors of the home in relation to the fireplace and chimney must be considered and be in compliance with applicable codes, if any.
- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- The fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending the entire depth and width of the fireplace enclosure and hearth extension. See sections 3.7 and 3.8.
- Metal sealing strips must be used under the fireplace and hearth extension. See section 3.8 Hearth Extension on page 16 for more information.
- Due to high surface temperatures, the fireplace should be located out of traffic and away from furniture and draperies.
- The minimum hearth extension floor area is 16" (406mm) in front of the fireplace opening and 8" (203mm) beyond each side of the fireplace opening. The minimum hearth extension must be insulated with non-combustible floor protection with a minimum insulation R-value of 0.8.  
Manufactured hearth materials have a published **R value (resistance to heat)** or **k value (conductivity of heat)**. Use the following formula to convert a k value to a R value  
 **$R=1/k \times \text{inches of thickness}$** . See section 3.9 Alternate Floor Protection Material on page 17 for full equation.
- Please be aware of the large amount of heat this fireplace will produce when determining a location.

### 3.2 Zone Heating

The Albany wood fireplace is an appliance that provides zone heating. Zone heating effectively heats the area the appliance is installed in, as well as the spaces connected to that area. Zone heating is a great method to complement a primary heating source, such as a conventional oil, gas, or electric heating system.

To increase the effectiveness of zone heating, consider where the family spends the most of the time. This is normally the family room. By locating your fireplace in this area, you will maximize the effectiveness of the appliance's heat production. Other factors affecting your heating capabilities will be your house size, type and amount of insulation in your home, the use of optional heat transfer kits, and your climate zone.

Optional heat transfer kits are a great method to move heat to other sections of the house. The Albany wood fireplace is approved for use with part #HTK-INT. This kit contains flexible pipe that is connected to a wall mounted fan to transfer heat from the fireplace. See additional information in the heat transfer kit manual. Ceiling fans are an additional mechanism to promote good air movement to fully utilize the heat produced from your fireplace.

### 3.3 Moving the Appliance

This appliance is heavy. We recommend a team lift when moving, placing, and positioning the appliance.

On both sides of the appliance, there are lift handles that allow a hand lift. These lift handles can be removed by removing the (4) wing nuts securing the handles to the fireplace.

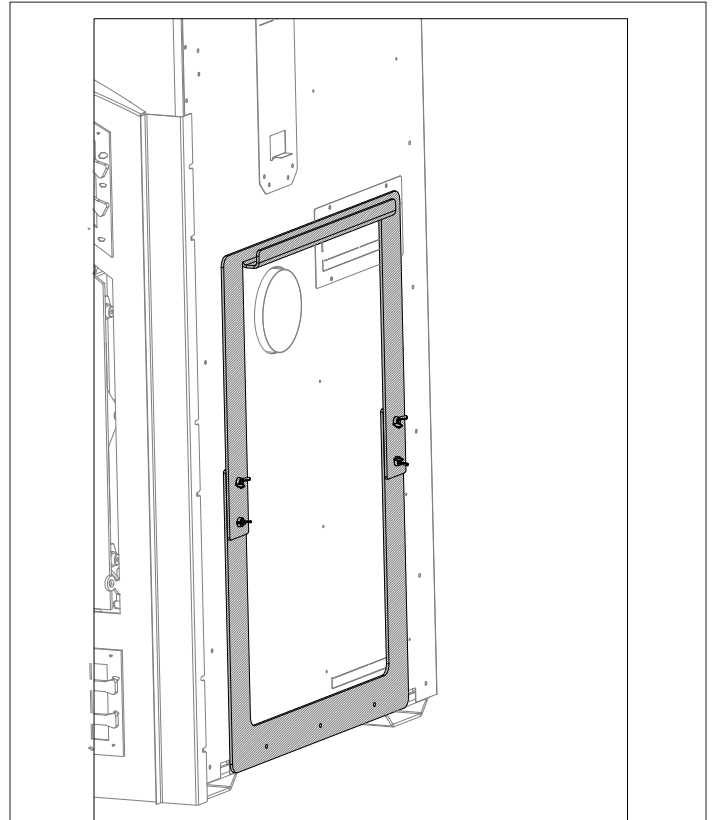


Figure 3.1, Lift Handles

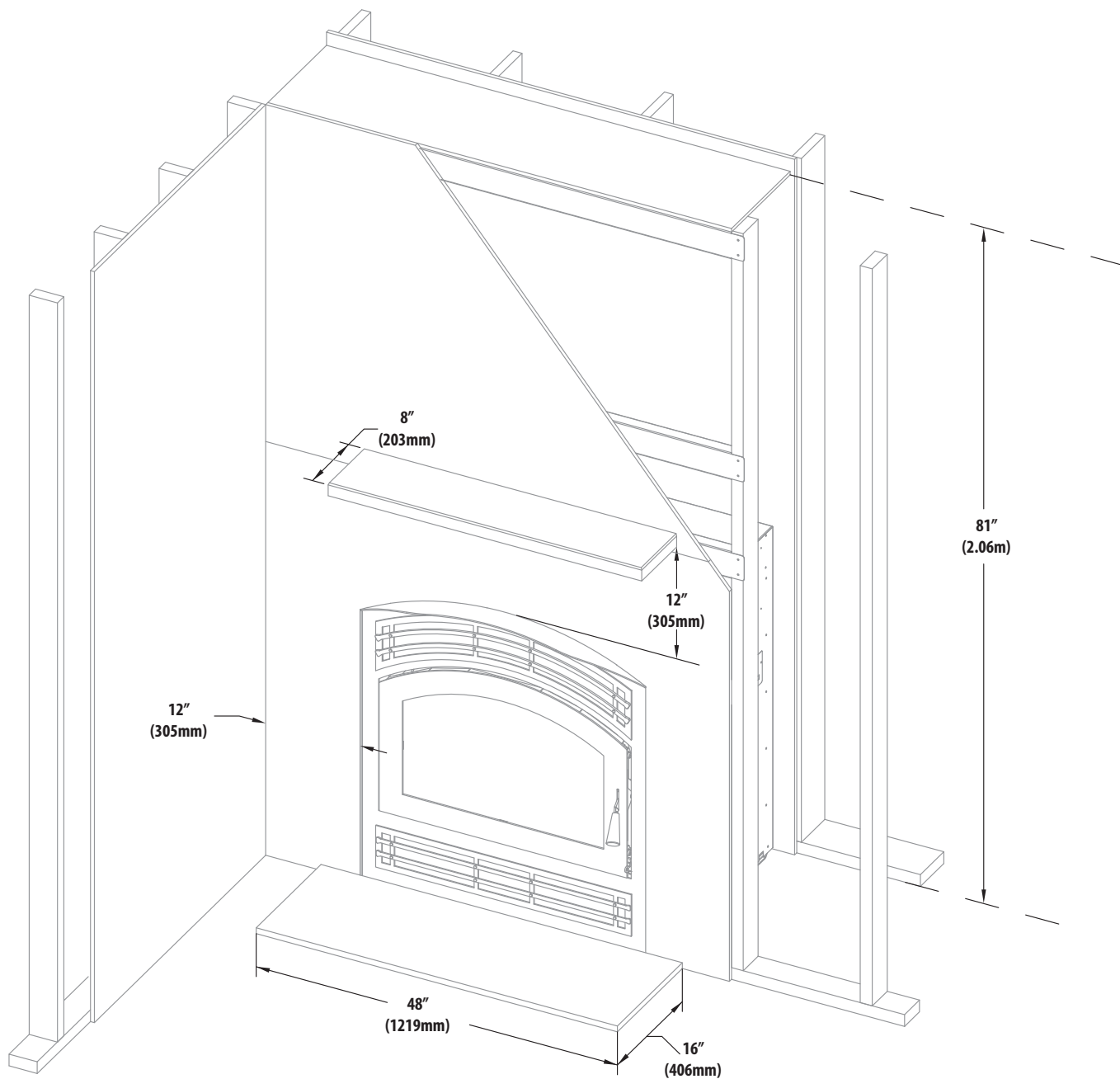


Figure 3.2, Placement Clearance Requirements

**Nominal 2" x 4" framing used**

### 3.4 Nailing Flange Assembly and Installation

**CAUTION:** *Never permanently remove these assemblies from the fireplace—they must be secured regardless of finish material used.*

1. Remove (2) nailing flanges from the right and left side of the fireplace.
  2. Align nailing flanges with holes on the outside corners of fireplace, with the stand-off flanges on the nailing flanges facing away from the fireplace.
  3. Secure the nailing flanges to the fireplace with screws (provided) through the slots in nailing flanges.
  4. Bend perforation on nailing flange until parallel with fireplace face. Do not bend toward fireplace face.
  5. UNTIL ALL FRAMING REQUIREMENTS ARE COMPLETED: Position framing stud against the small stand-off (located on backside of nailing flange). Secure with nails or screws.
- **When installed, the nailing flanges provide the minimum 7" (177mm) clearance from the sides of the fireplace to framing.**

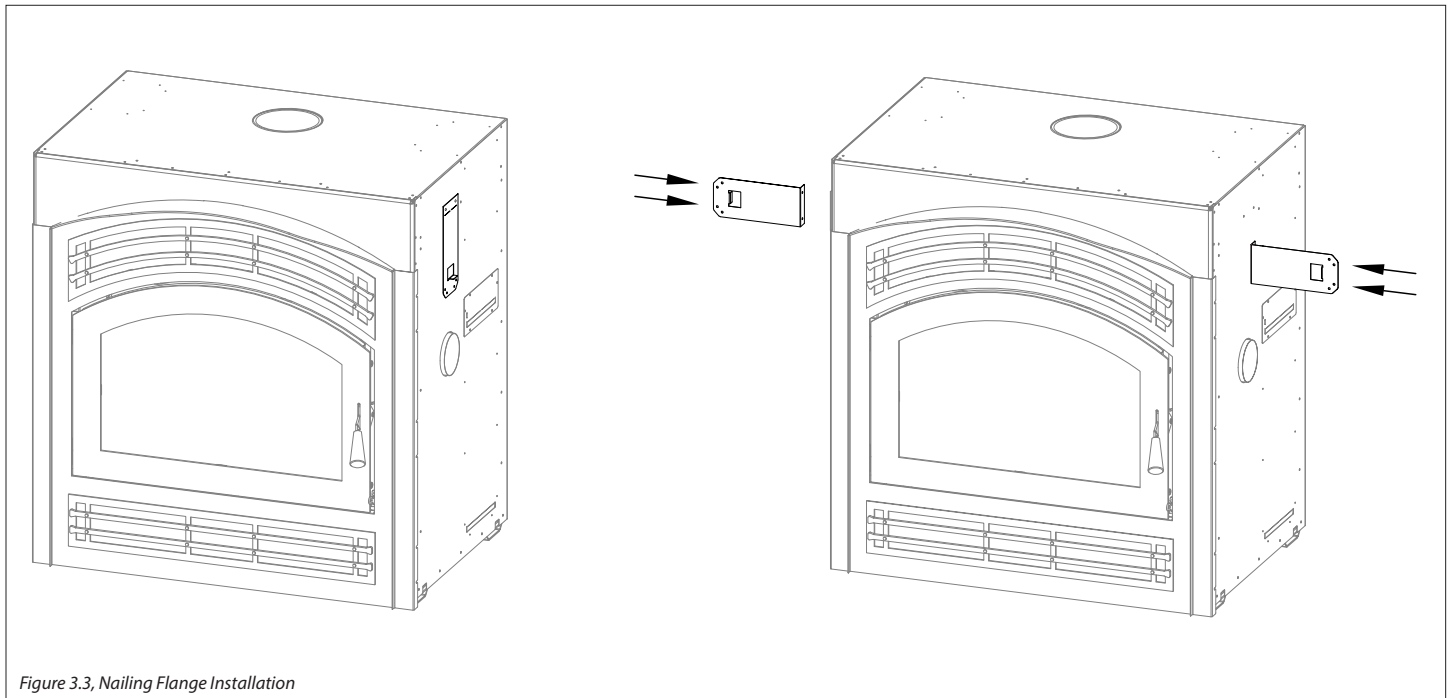


Figure 3.3, Nailing Flange Installation

### 3.5 Steel Framing Assembly Installation

**WARNING: Non-combustible framing is REQUIRED above the fireplace. Failure to comply may cause a fire hazard.**

The steel framing assembly provides:

- Contact point for non-combustible material above the fireplace
1. Locate the steel framing on top of the fireplace, as shipped.
  2. Form the (4) vertical steel framing members as shown. These steel framing members are identical.
  3. Form the (3) horizontal steel framing members as shown. These steel framing members are identical.

4. Attach the vertical steel framing members to the horizontal steel framing members with the provided screws, as shown.
  5. Secure the assembled parts to the fireplace with the provided screws.
  6. The third steel framing member is for ceiling support. Once all framing requirements are completed, attach the third steel framing member to support the fireplace enclosure ceiling.
  7. Secure the assembled steel framing to framing studs on both sides of the fireplace, once all framing requirements are completed.
- Refer to Figure 3.6, Framing Dimensions on page 15 for the steel framing assembly completed installation.

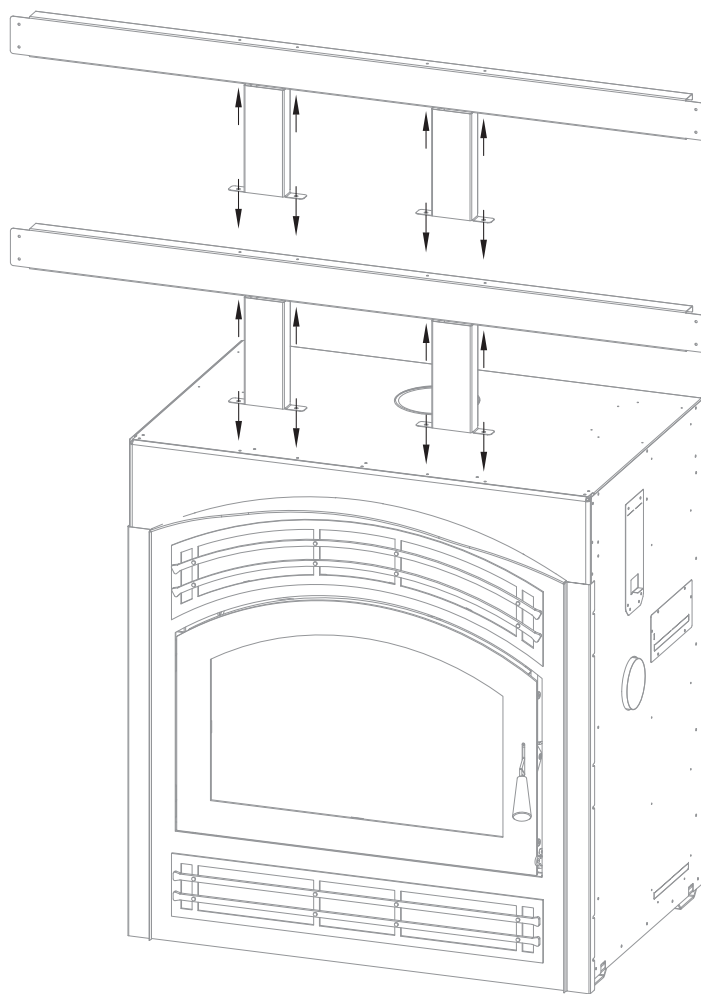


Figure 3.4, Stand-off Assembly and Steel Framing Installation

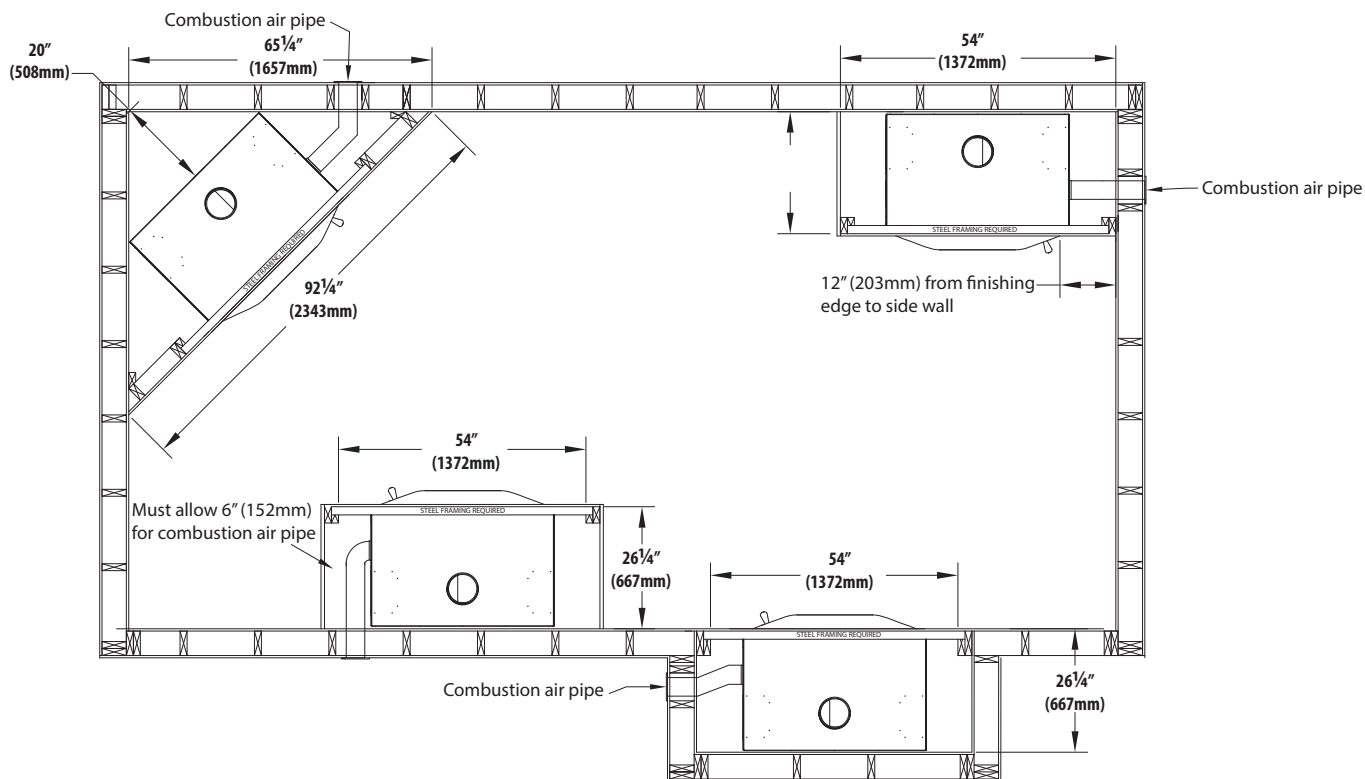
## 3.6 Clearances to Combustibles

**NOTE:** Even though minimum clearances from the back wall is 0" (0mm), a 1/4" (6mm) expansion space is recommended to allow for heat expansion.

**Table 3.1, Minimum Clearances to Combustibles**

| Table 3.1, Minimum Clearances to Combustibles                 |     |       |
|---------------------------------------------------------------|-----|-------|
| <b>WITHIN ENCLOSURE AREA</b>                                  |     |       |
| Appliance to back wall                                        | 0"  | 0mm   |
| Appliance left and right stand-off brackets                   | 0"  | 0mm   |
| Minimum height of fireplace enclosure from the fireplace base | 81" | 2.06m |
| <b>EXPOSED AREA</b>                                           |     |       |
| Fireplace side finishing edge to sidewall                     | 12" | 305mm |
| Fireplace top finishing edge to 8" (203mm) mantel             | 12" | 305mm |
| Front of fireplace                                            | 36" | 914mm |

**NOTE:** All dimensions include 1/4" (6mm) side and back expansion space and 1/2" (12mm) sheathing. Sheathing is flush with the fireplace front. Dimensions must be adjusted if your sheathing is more than 1/2" (12mm) thick.



## 3.7 Wall Enclosure Rough Opening

**IMPORTANT:** If this fireplace is installed on an exterior wall, it must be insulated the same as any other exterior wall to prevent cold air from entering the home.

**IMPORTANT:** Allow a minimum of 6" (152mm) in framing width dimensions for the combustion air duct pipe, which will be installed after fireplace has been inserted into framing. See Figure 3.5 on page 14.

**CAUTION:** Consider the height of the hearth extension when framing the opening. The height of a hearth extension material may require the fireplace to be raised on a platform so the hearth extension material does not block the air inlet and outlet grills. If the air inlet or outlet grills are blocked, this may cause the fireplace to overheat.

- Frame the opening to fit fireplace. All required clearances must be maintained.
- If masonry (optional) is to be used, prepare the foundation necessary to support the full masonry load. A lintel is required to support the added weight of the masonry construction above the fireplace.

### 3.7.1 Steel Framing Assembly

Non-combustible framing is REQUIRED above the fireplace. The steel studs shown below are included with the fireplace. For installation and assembly, refer to section 3.5 Steel Framing Assembly Installation on page 13.

### 3.7.2 TV Mounting Considerations

Mounting a television above a fireplace is a common practice. Mantel depth, ceiling heights, and wall and mantel construction material all affect television surface temperatures. Most television manufacturers specify in their instructions that a television should not be installed on, near, or above a heat source.

Television location rests solely on the homeowner. It is the homeowner's responsibility that the preferred TV mounting and mantel design will not exceed the listed maximum operation temperature of their electronic goods.

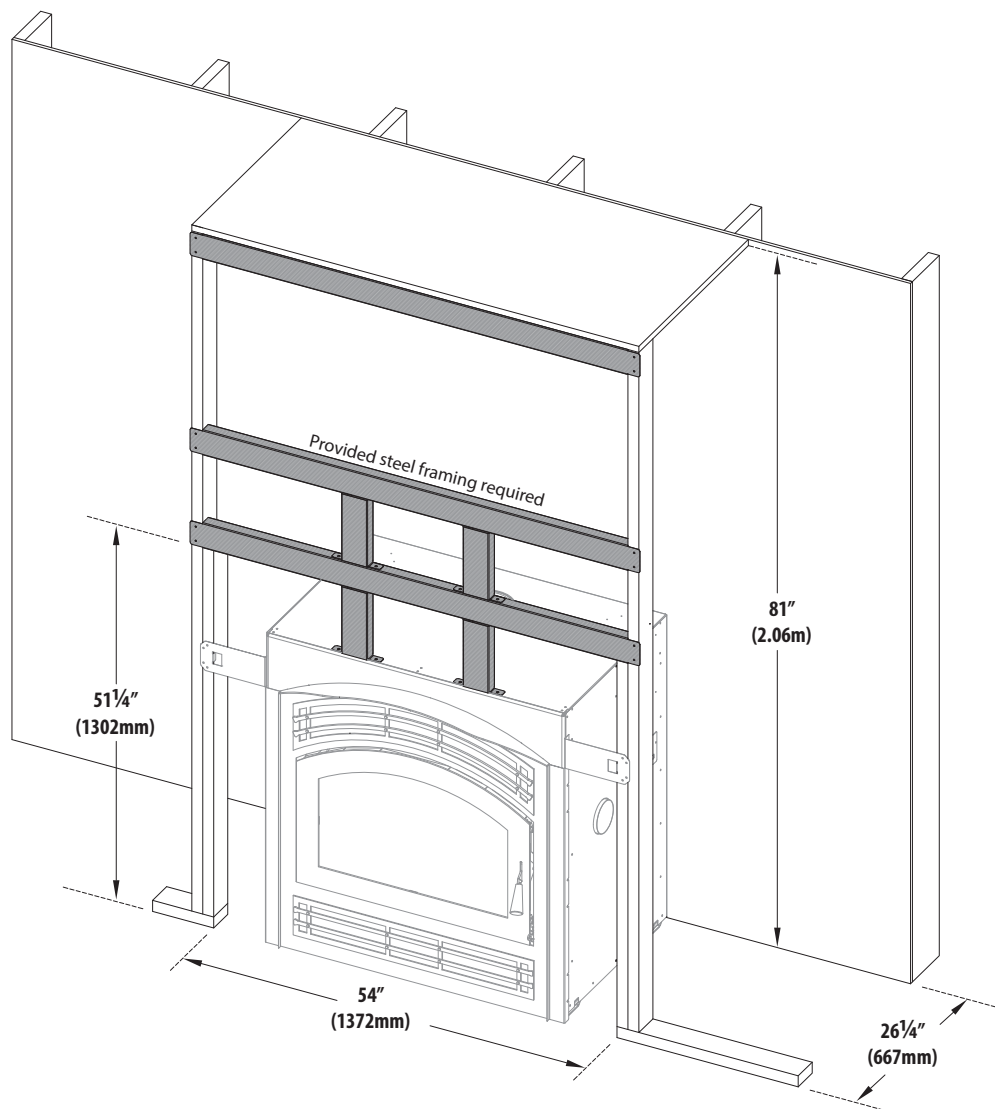


Figure 3.6, Framing Dimensions

Nominal 2" x 4" framing used

### 3.8 Hearth Extension

**WARNING:** *Hearth extensions MUST be installed exactly as specified.*

**CAUTION:** *The lower grill must be allowed to be removed completely. Do not position fireplace in such a manner that would obstruct this grill.*

**IMPORTANT:** *Metal sealing strip (included) MUST be installed to provide protection against sparks or embers that might come in contact with combustible flooring or support.*

- Install the sealing strip so it is centered under the fireplace and the hearth extension, for the full width of the fireplace. Ensure that the gap between the hearth and an on-site constructed hearth extension is sealed, with sand-cement grout and/or covered with a metal sealing strip.
- **RAISED AND NON-RAISED HEARTHES:** Combustible flooring 16" (406mm) in front of the fireplace opening and 8" (203mm)

beyond each side of the fireplace opening. The minimum hearth extension must be insulated with non-combustible floor protection with a minimum insulation R-value of 0.8.

- Manufactured hearth materials have a published **R value (resistance to heat)** or **k value (conductivity of heat)**. Use the following formula to convert a k value to a R value.  
 **$R = 1/k \times \text{inches of thickness}$** . See section 3.9 Alternate Floor Protection Material on page 17 for complete formula.
- If installing optional heat duct kit HTK-INT, please refer to instructions included with the kit. Venting for the heat duct kit should be completed before framing the fireplace.
- If installing optional #600-1 fan kit, run electrical wiring prior to enclosing the sides of the fireplace. See Section section 5.0 Optional Fan Installation on page 14.

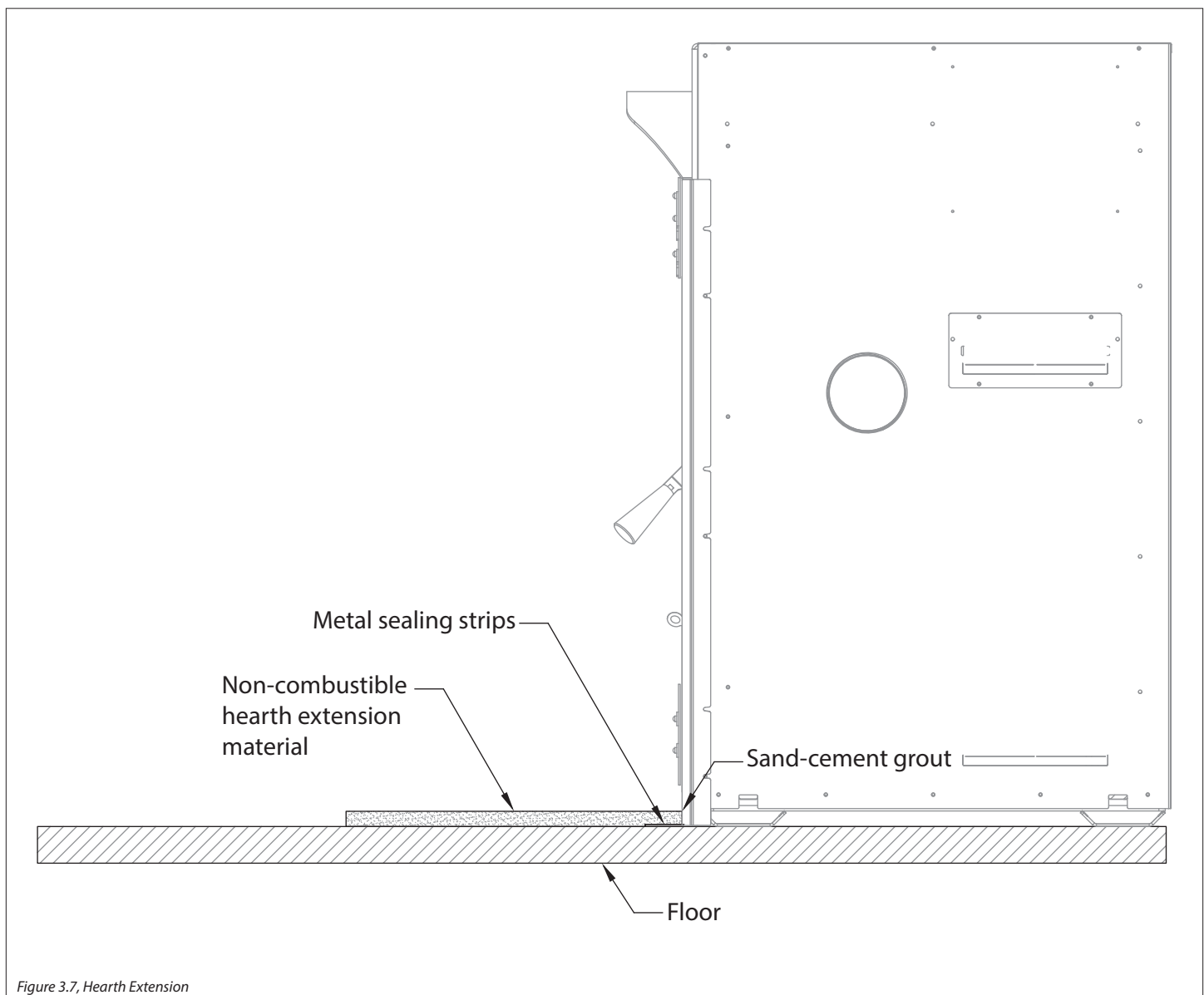


Figure 3.7, Hearth Extension



### 3.9 Alternate Floor Protection Material

**How to determine if alternate floor protection materials are acceptable:**

- All floor protection materials must be non-combustible (i.e., metals, brick, stone, mineral fiber boards, etc.).
- Any organic materials (i.e., plastics, wood, paper products, etc.) are combustible and must not be used.
- The floor protection specified may include some form of thermal designation, such as R-value (thermal resistance), K-factor (thermal conductivity), or C-factor (thermal conductance).

**Procedure:**

- A. Convert specification to R-value:
  - I. R-value given: **no conversion needed**
  - II. k-factor is given with a required **thickness (T)** in inches:  $R=1/k \times T$
  - III. C-factor is given:  $R=1/C$
- B. Determine the R-value of proposed alternate floor protector:
  - I. Use formula in step (a) to convert values not expressed as 'R'. For multiple layers, add R-values of each layer to determine overall R-value.
- C. If overall R-value of the system is greater than the R-value of specified floor protector, the alternate is acceptable.

**EXAMPLE:**

The specified floor protector should be 3/4 inch thick material with a k-factor of 0.84.

The proposed alternate is 4" brick with a C-factor of 1.25 over 1/8" mineral board with a k-factor of .29.

Step (a): Use formula above to convert specification to R-value.

$$R = 1/k \times T = 1/.84 \times .75 = 0.893.$$

Step (b): Calculate R of proposed system.

To determine the R value of 4" brick with C =1.25;

$$R_{\text{brick}} = 1/C = 1/1.25 = 0.80$$

To determine the R value of the 1/8" mineral board with k = 0.29;

$$R_{\text{mineral board}} = 1/k \times T \text{ (thickness of board)} = 1/.29 \times .125 = .431$$

To determine the Combined R value of brick and mineral board =

$$R_{\text{brick}} + R_{\text{mineral board}} = .8 + .431 = 1.231$$

Step (c): Compare proposed system of R of 1.231 to specified R of .893. Since proposed system R of 1.231 is greater than required (specified R of .893), the system is acceptable.

**Definitions:**

|                      |           | IMPERIAL<br>UNITS                                                          |   | METRIC<br>UNITS                                                                                           |
|----------------------|-----------|----------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------|
| Thermal conductance  | <b>C=</b> | $\frac{\text{Btu}}{(\text{hr})(\text{ft}^2)(^\circ\text{F})}$              | = | $\frac{\text{W}}{(\text{m}^2)(^\circ\text{K})}$                                                           |
| Thermal conductivity | <b>k=</b> | $\frac{(\text{Btu})(\text{in})}{(\text{hr})(\text{ft}^2)(^\circ\text{F})}$ | = | $\frac{\text{W}}{(\text{m})(^\circ\text{K})} = \frac{\text{Btu}}{(\text{hr})(\text{ft})(^\circ\text{F})}$ |
| Thermal resistance   | <b>R=</b> | $\frac{(\text{ft}^2)(\text{hr})(^\circ\text{F})}{\text{Btu}}$              | = | $\frac{(\text{m}^2)(^\circ\text{K})}{\text{W}}$                                                           |

### 3.10 Combustion Air Duct Pipe

**WARNING:** Do not use plastic flexible pipe, such as dryer vent pipe, for combustion air duct pipe venting.

**WARNING:** Do not terminate combustion air duct pipe into attic or garage. Termination must be to the outside of the home.

**IMPORTANT:** Combustion air duct pipes must be secured with screws to prevent separation and cold air transfer.

**NOTE:** If the combustion air duct pipe runs for any distance outside the enclosure, but inside the house, wrap with insulation to eliminate condensation or frost build-up. See Figure 3.9.

**NOTE:** If the air intake duct pipe will terminate at the same height or above the combustion air intake collar on the fireplace, an air trap is recommended. See venting configurations in Figure 3.10, Combustion Air Duct Venting Configurations on page 19.

This fireplace requires a supply of outside air for combustion.

The Albany is manufactured with an combustion air intake collar protruding approximately 2-7/8" (73mm) out from the right side of the fireplace. Connect the outside air duct pipe to the combustion air intake collar and secure with screws.

The combustion air duct pipe termination must be located in an area so it cannot be blocked (i.e., snow drifts). 4' (1219mm) above grade is recommended.

**Do not connect outside air pipe until after the fireplace has been inserted into framing.**

*Installation instructions continue on the next page.*

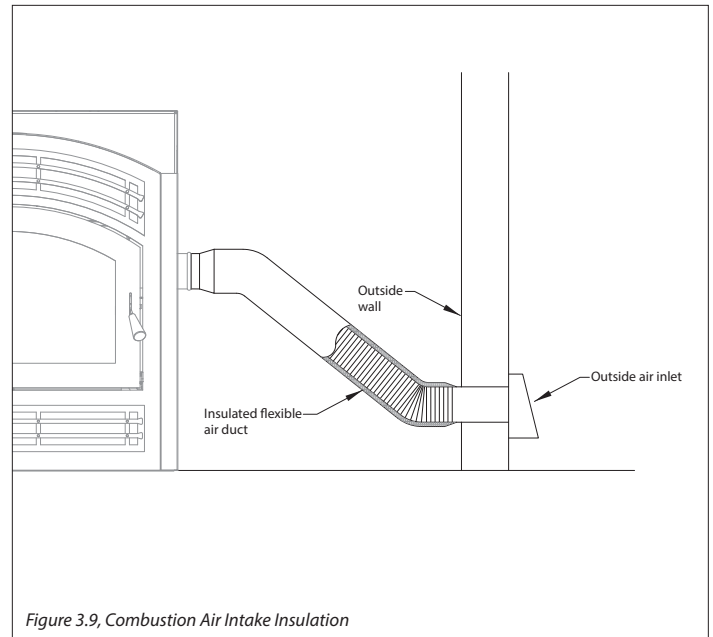


Figure 3.9, Combustion Air Intake Insulation

Connect the outside air duct pipe to the combustion air intake collar after fireplace has been inserted into framing

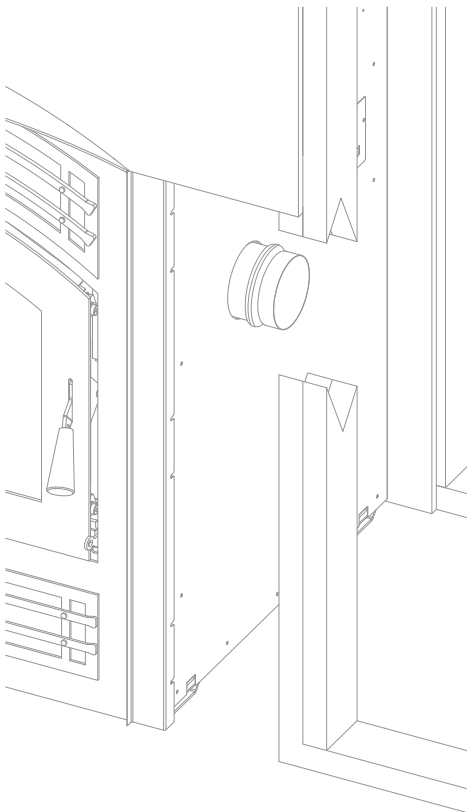


Figure 3.8, Combustion Air Intake Collar

### 3.10.1 Combustion Air Intake - Air Trap

- An optional air trap can be used in venting configurations 1 through 3 in Figure 3.7 below.
- An air trap is **REQUIRED** on venting configuration 4 when the combustion air intake is above the air intake collar on the fireplace.

### 3.10.2 Combustion Air Duct Installation

**IMPORTANT: Maximum air duct vent pipe length is 25' (7.6m).**

1. Connect a 4" (102mm) galvanized or heavier pipe to the air intake collar, and run to the nearest outside wall. Secure with screws. See venting configurations below.
2. Aluminum flex duct pipe is approved for outside combustion air, and may also be used. Do not crush or tear aluminum flex duct

pipe. Do not use plastic pipe.

3. Use 4" flexible duct pipe for vent runs under 10' (3m). For vent runs longer than 10' (3m), use 5" aluminum flex duct pipe. Place the 4" to 5" adapter as close to the fireplace as possible.
4. If ducting beside the chimney chase, terminate intake air at least 3' (914mm) below the termination level of chimney. The air pipe may also be ducted below floor level of the fireplace, providing it is ducted to the outside.
5. Mount a standard metal vent cover designed for a 4" (102mm) pipe on outside exterior wall, with the louvers pointing downward. Use a 5" metal vent cover if you increased the air duct vent size in Step 4.

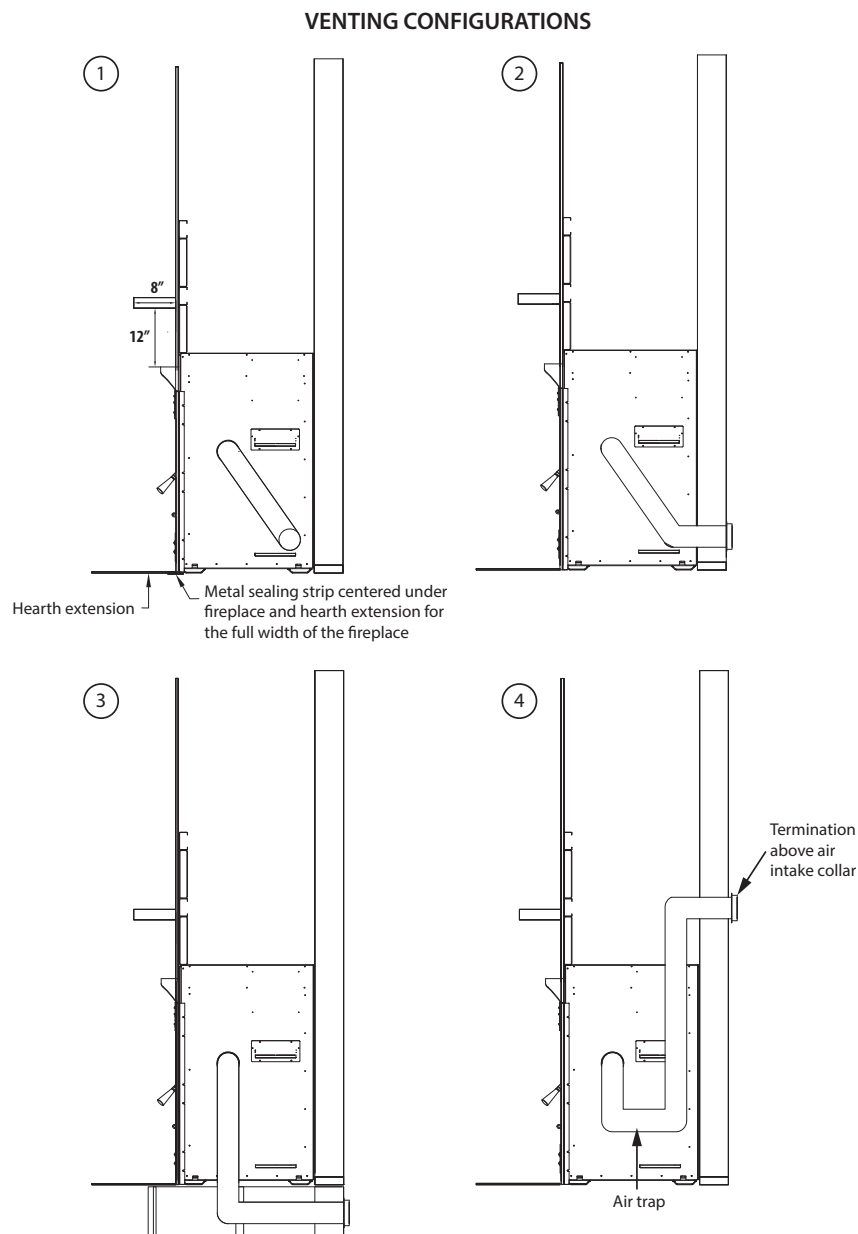


Figure 3.10, Combustion Air Duct Venting Configurations

**Nominal 2" x 4" framing used**

## 4.0 FACING AND FINISHING

---

### 4.1 Facing and Finishing Requirements

#### 4.1.1 Mantel Requirements

**WARNING:** All minimum clearances to combustible material **MUST** be maintained.

- **Combustible Mantel Projections:** As referenced in Figure 4.1, the 8" (203mm) mantel can start 12" (305mm) above the top finishing edge. Mantel projections can increase 1" (25mm) of depth for every 1" (25mm) of height starting at the 8" (203mm) mantel.
- **Mantel Leg:** There is a required 12" (305mm) clearance to any combustible or non-combustible mantel leg.
- **Non-combustible Mantel Projections:** A minimum vertical clearance of 6" (152mm) above the top finishing edge to a maximum 6" (152mm) depth of a non-combustible mantel. Follow projection 1" (25mm) up for every 1" (25mm) deeper. See Figure 4.2 on page 22.

#### 4.1.2 Adjacent Sidewall Requirements

- The adjacent sidewall minimum clearance is 12" (305mm) from the side finishing edges of the fireplace.

#### 4.1.3 Facing Requirements

**NOTE:** Non-combustible material such as brick, tile, marble, or stone may be placed over the top and side face sections. This material **MUST NOT** come in direct contact with fireplace, or cracking of face material will occur.

**CAUTION:** If using 'thin' brick as facing, non-combustible facing material, such as rock board or metal, must be used underneath the 'thin' brick. Do not attach any material directly to fireplace face.

- Facing material should overlap side framing member approximately 1/4" to 3/8" (6mm to 10mm).
- Framing materials should not come in actual contact with the fireplace.
- Non-combustible material is required at the top and sides of the fireplace. See Figure 4.3, Non-combustible Finishing Dimensions on page 23.
- Install facing material up to the finishing edge. Do not apply any material beyond this point.
- It is acceptable to pre-drill holes and to use self-tapping screws prior to attaching the non-combustible material to the top and sides of the fireplace face. Screws can only penetrate the fireplace outer shell up to 1/2" (13mm) in the allowed areas.

#### 4.1.4 Finishing Recommendations

**NOTE:** The surface area above the appliance may be affected by high temperatures emitted from this appliance. To help avoid or reduce the possibility of the sheetrock to crack, Hussong Mfg. Co., Inc. recommends the following methods:

- Ensure the non-combustible material and sheetrock is dry and dust free.
- For taping and applying joint compound, we recommend heat resilient tape, mesh, and joint compounds, such as Durabond. The joint compound must be cured as per manufacturer's recommendations.
- For a painted surface, use a high quality acrylic latex primer and finish coat. Avoid flat or light-colored paints to prevent discoloring.

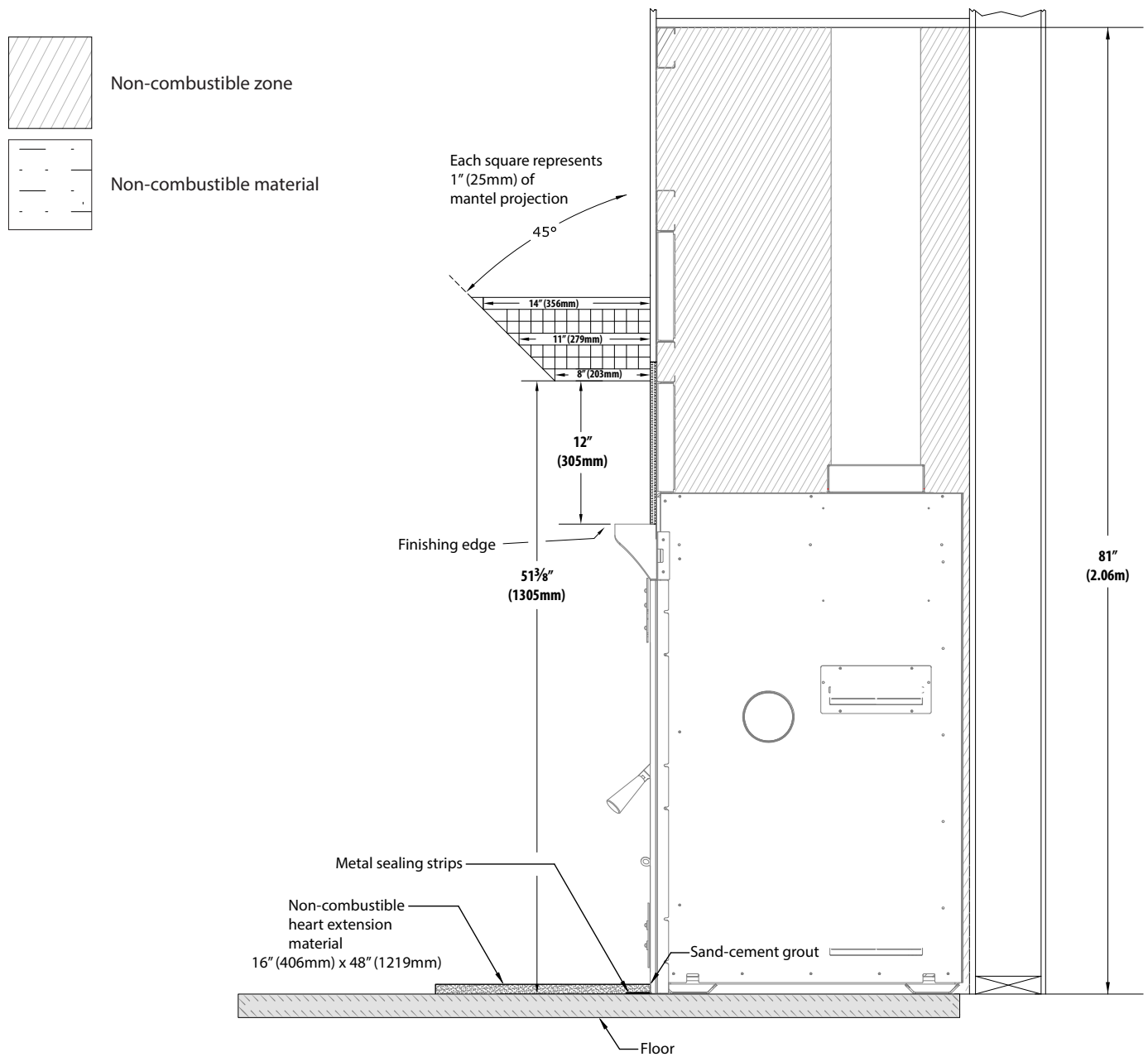


Figure 4.1, Combustible Mantel Requirements

**Nominal 2" x 4" framing used**

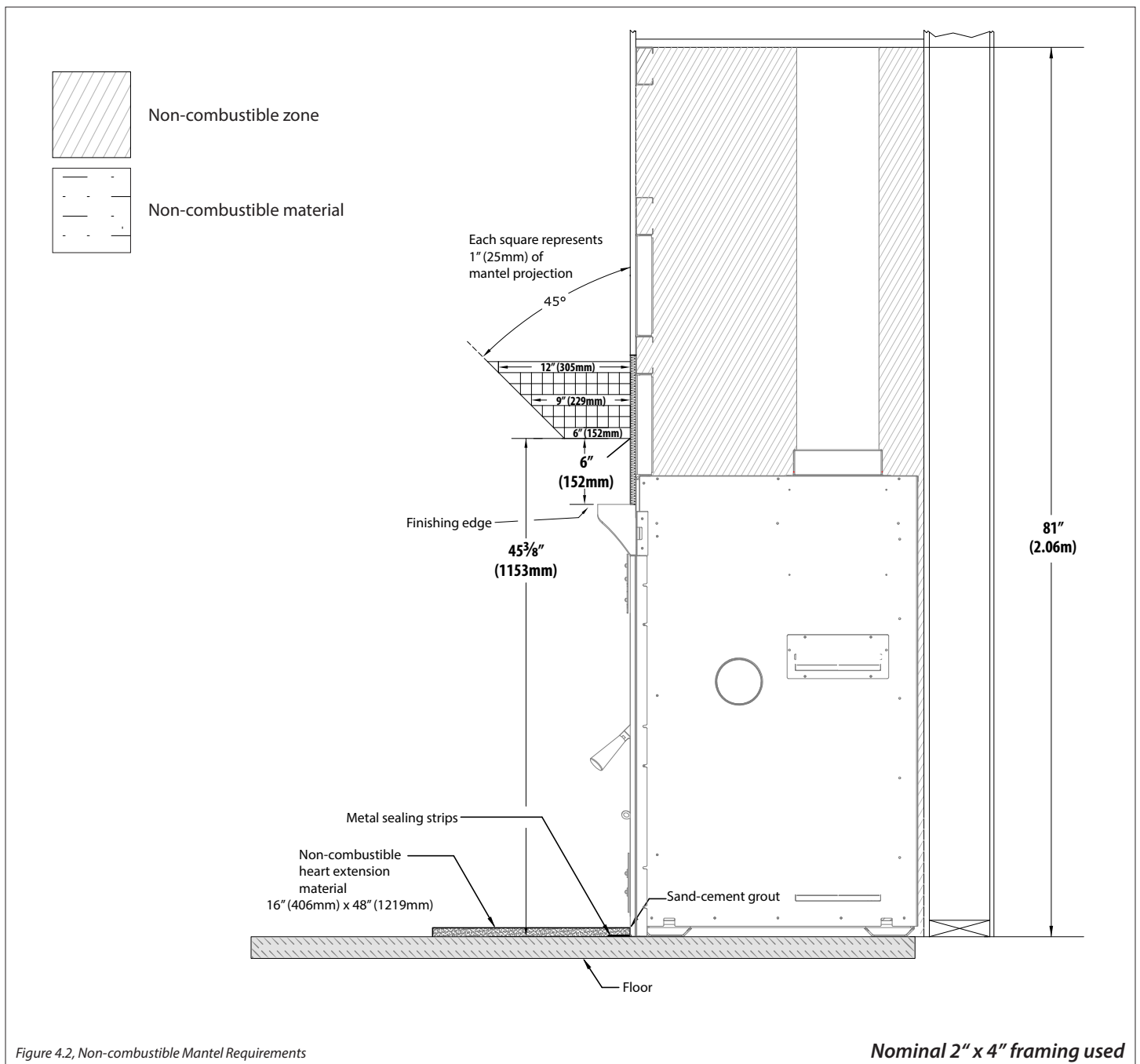
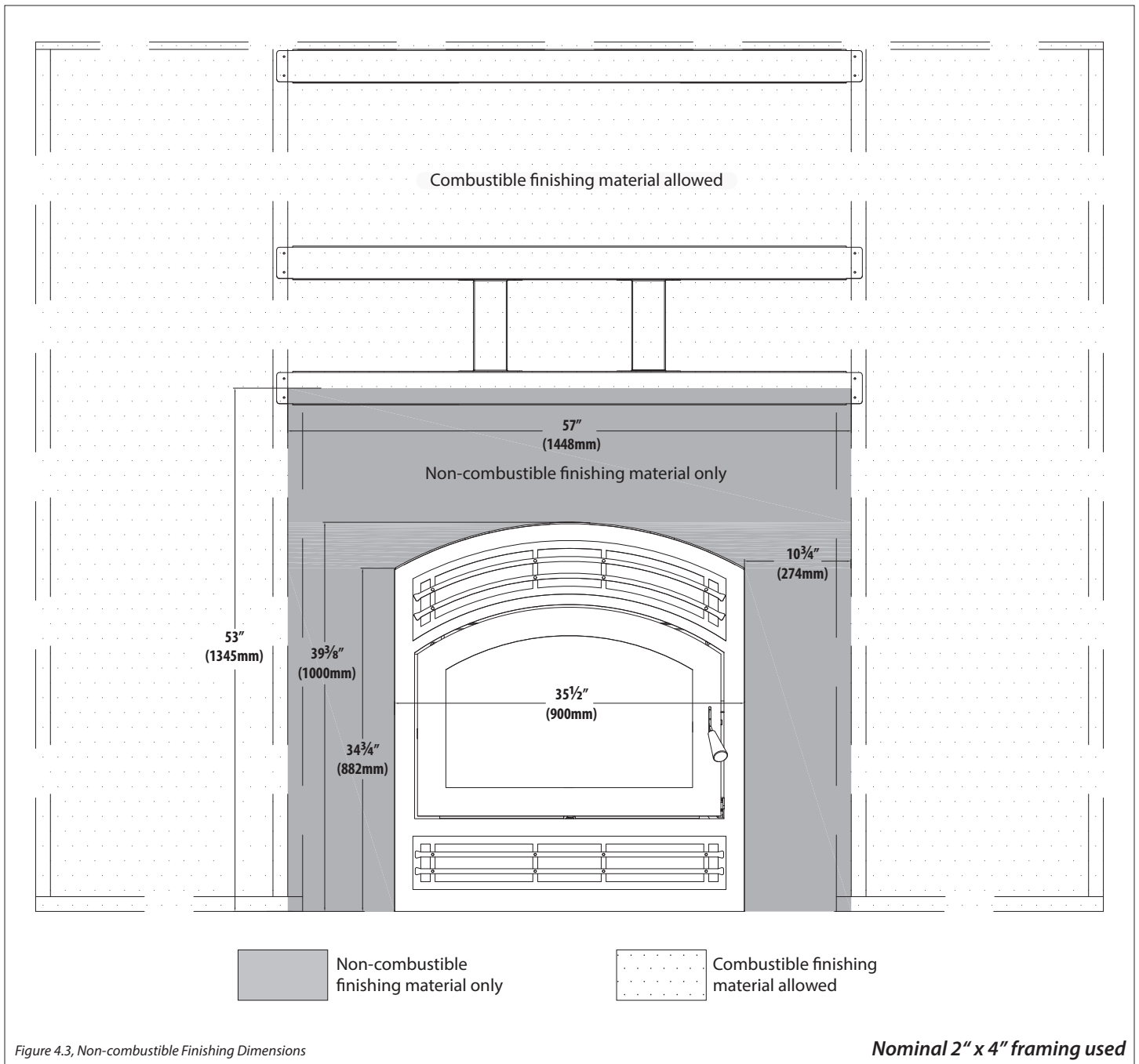


Figure 4.2, Non-combustible Mantel Requirements



## 5.0 OPTIONAL FAN INSTALLATION

### 5.1 #600-1 Optional Fan Kit

**ATTENTION:** Installation of this fan kit should be done only by a qualified installer.

**WARNING:** Verify household breaker is shut off prior to working on any electrical lines. Disconnect all electric power from fireplace before performing any of these tasks.

**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.

Code approved line voltage wiring 14 gauge or better must be used when wiring the optional #600-1 fan kit assembly. Refer to local codes for specific requirements.

This optional fan kit includes:

- (2) 110 CFM fan with temperature control switch and 4' (1.22m) fan cord
- (4) 1/4" nuts

#### 5.1.1 Fan Shield Installation

(2) fan shields are included in the fireplace components packet. These shields divert more air circulating through the fans upward, increasing the volume of air exiting through the upper grill.

1. Slide one corner of a fan shield onto the front chute on each fan, making sure the 'V' portion of the shield is inside the chute.
2. Slide fan shield down onto the chute.

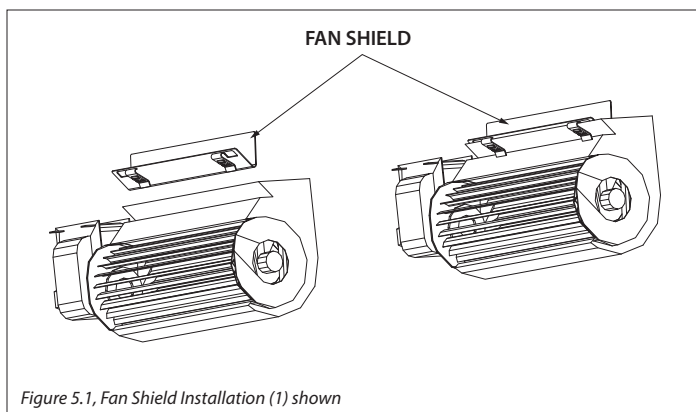


Figure 5.1, Fan Shield Installation (1) shown

#### 5.1.2 Fan Kit Installation

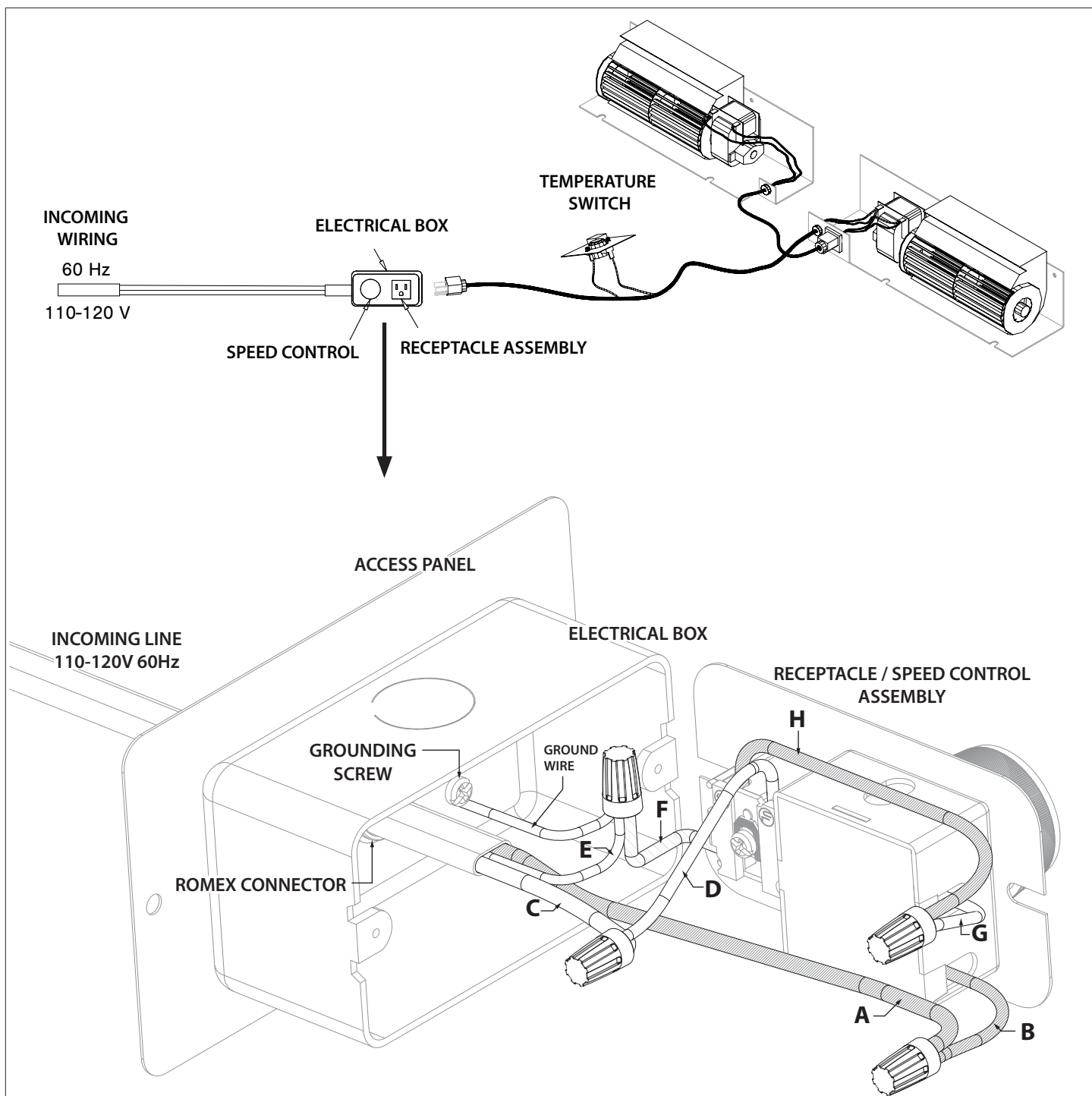
**Fan wiring is on the next page.**

1. The lower grill must be removed from the fireplace prior to installation of this fan. Refer to Section 7.2 Grill Set Installation and Removal on page 32.
2. Insert fans through lower grill opening and push to back. Align mounting slots in fan brackets onto mounting studs. Secure with nuts.
3. Connect fan wiring by attaching connectors on right fan onto terminals on left fan.
4. From inside lower right grill opening, loosen screws securing removable access panel (with electrical box & romex connector installed). Remove access panel.
5. Insert 110V - 120V wiring (with ground) through romex connector and wire to the speed control / receptacle assembly, matching black (hot), white (neutral), and green (ground) wires to corresponding wires on speed control / receptacle assembly.
6. Secure speed control / receptacle assembly to the electrical box with (2) screws provided.
7. Re-install electrical access panel. Tighten screws.
8. Attach temperature control switch to bottom of firebox.
9. Plug cord into electrical box receptacle.
10. Turn speed control counter-clockwise until it 'clicks'. This is the OFF position.
11. Turn speed control ON by turning knob clockwise past the 'click' - this is the highest setting.
12. Re-install lower grill. Refer to Section 7.2 Grill Set Installation and Removal on page 32.

##### 5.1.2.1 Temperature Control Switch Position

Before adjusting temperature control switch, unplug 3-prong plug on fan cord from receptacle. Adjust position of temperature control switch to a warmer location under firebox to turn fan ON sooner or move it to a cooler location under firebox to turn fan ON later. Fan will turn on when sensor in temperature control switch reaches 110° F and will turn OFF when sensor reaches 90° F. After adjustment, plug 3-prong plug on fan cord into receptacle.





**Connect A to B, C to D, E to F, and G to H**

| LEGEND |                                    |   |                                  |
|--------|------------------------------------|---|----------------------------------|
| A      | Black (hot) from incoming line     | E | Ground (bare) from incoming line |
| B      | Black from speed control           | F | Ground (green) from receptacle   |
| C      | White (neutral) from incoming line | G | White from speed control         |
| D      | White (neutral) from receptacle    | H | Black from receptacle            |

Figure 5.2, Fan Wiring and Connections

## 6.0 INSTALLATION

### 6.1 Chimney Requirements

**IMPORTANT:** Do not connect this fireplace to a chimney flue serving another appliance.

- Minimum Chimney Height: 12' (3.66m)
- Maximum Chimney Height: 50' (15.24m)
- Elbows: A maximum of (4) 30° elbows may be used (2 sets of offsets)
- Maximum Offset: 4' (1219mm)
  - If (2) 30° elbows are used, chimney height must be a minimum of 14' (4.27m).
  - If (4) 30° elbows are used, chimney height must be a minimum of 25' (7.62m)

### 6.2 Approved Chimney Systems

**CAUTION:** DO NOT fill required clearances between chimney and combustible with insulation.

This fireplace must be connected to a listed UL 103 HT insulated 6" diameter chimney and/or CAN/ULC S629 of any vent manufacturer. The following vent manufacturers listed are, but not limited to, approved UL103-HT vent pipe.

- **Selkirk:** UltimateONE, SuperVent (JSC), Ultra-Temp HT, Galva-Temp HT, Sure-Temp
- **Simpson Dura-Vent:** Dura-Plus, Dura-Tech,
- **AmeriVent:** AmeriVent TLC, HS
- **ICC:** Excel

Follow chimney manufacturer's instructions for proper chimney installation, clearances to combustibles, and support bracket requirements.

The entire chimney system must be installed to meet all local requirements, as well as chimney manufacturer requirements.

Follow the chimney manufacturer's instructions for the installation and maintenance of a flashing/storm collar assembly (this prevents water from entering the house at the roof line).

### 6.3 Anchor Plate Installation

**IMPORTANT:** The appropriate anchor plate must be purchased with the chosen chimney system. Sealant and screws for attaching the anchor plate to the fireplace are included with this unit.

**IMPORTANT:** The anchor plate must fit into flue collar on fireplace to prevent creosote leakage.

1. Place a bead of sealant under the chimney anchor plate.
2. Push plate collar into fireplace flue. Secure with (4) screws.

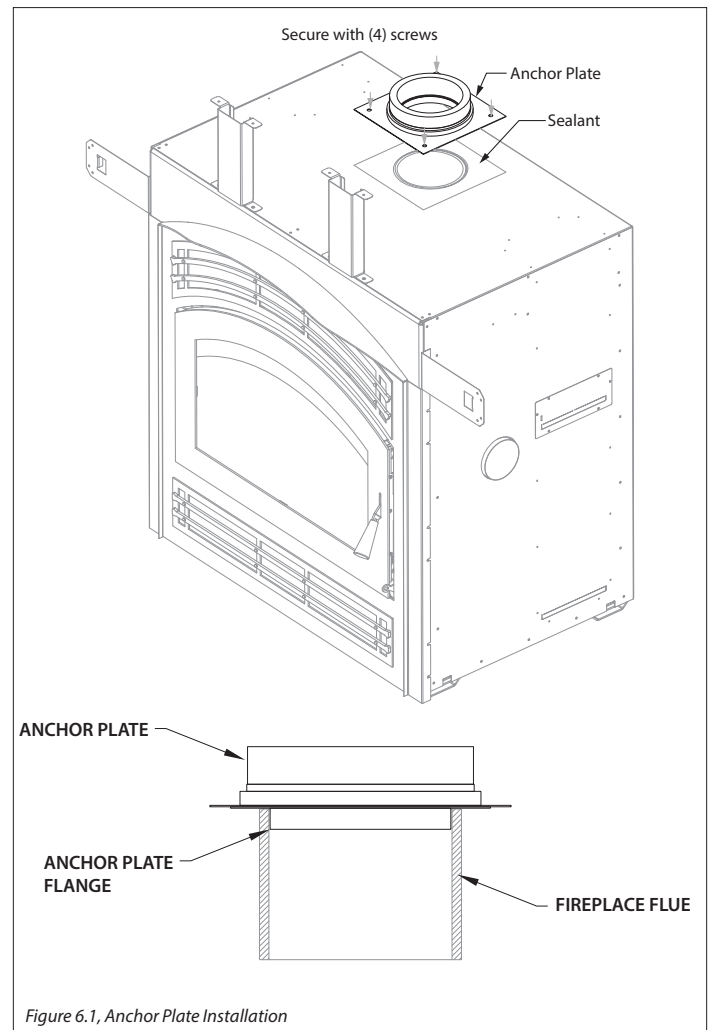


Figure 6.1, Anchor Plate Installation

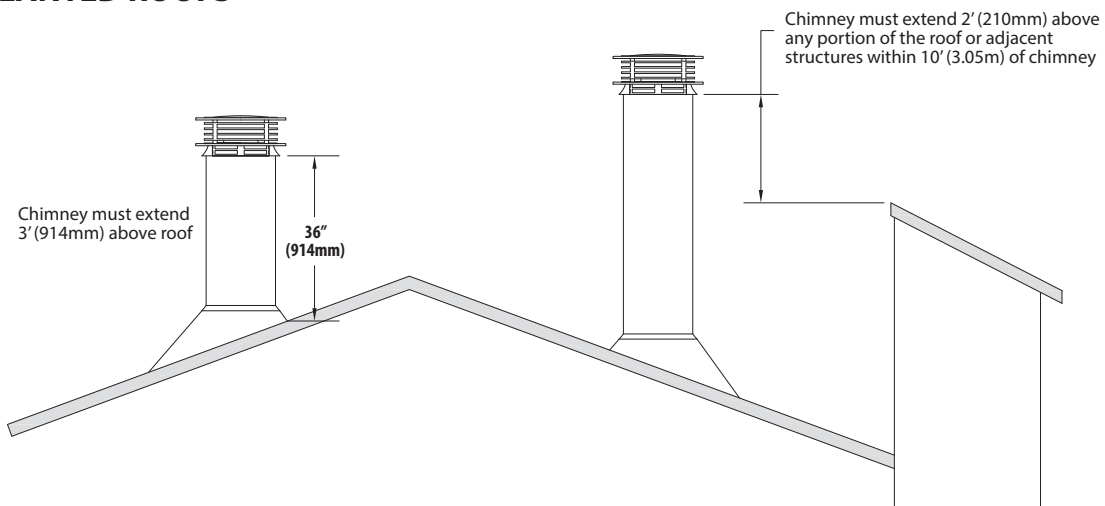
## 6.4 Chimney Location and Considerations

**NOTE:** Chimney must extend a minimum of 3' (914mm) above highest point where it passes through roof and at least 2' (610mm) higher than any portion of a building within 10' (3.05m).

For chimney heights and locations for slanted and flat roofs, see Figure 6.2 below.

For draft and chimney considerations, refer to Section 6.4.1 Importance of Draft and Chimney Location on page 28.

### SLANTED ROOFS



### FLAT ROOFS

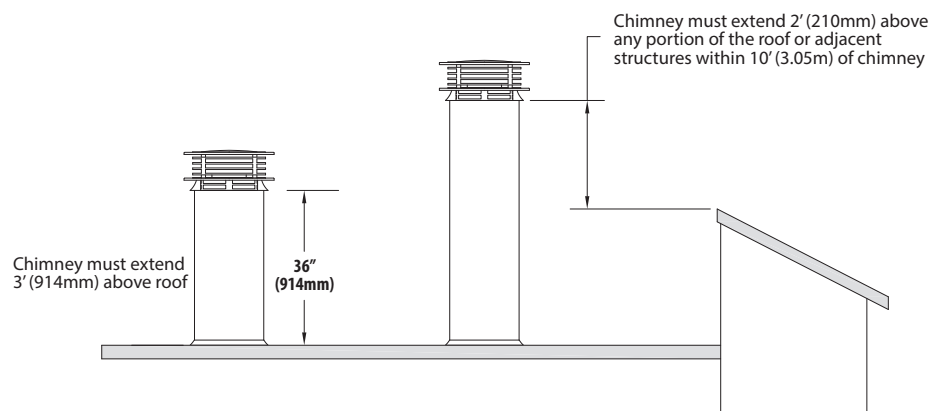


Figure 6.2, Chimney Locations for Roof Types

### 6.4.1 Importance of Draft and Chimney Location

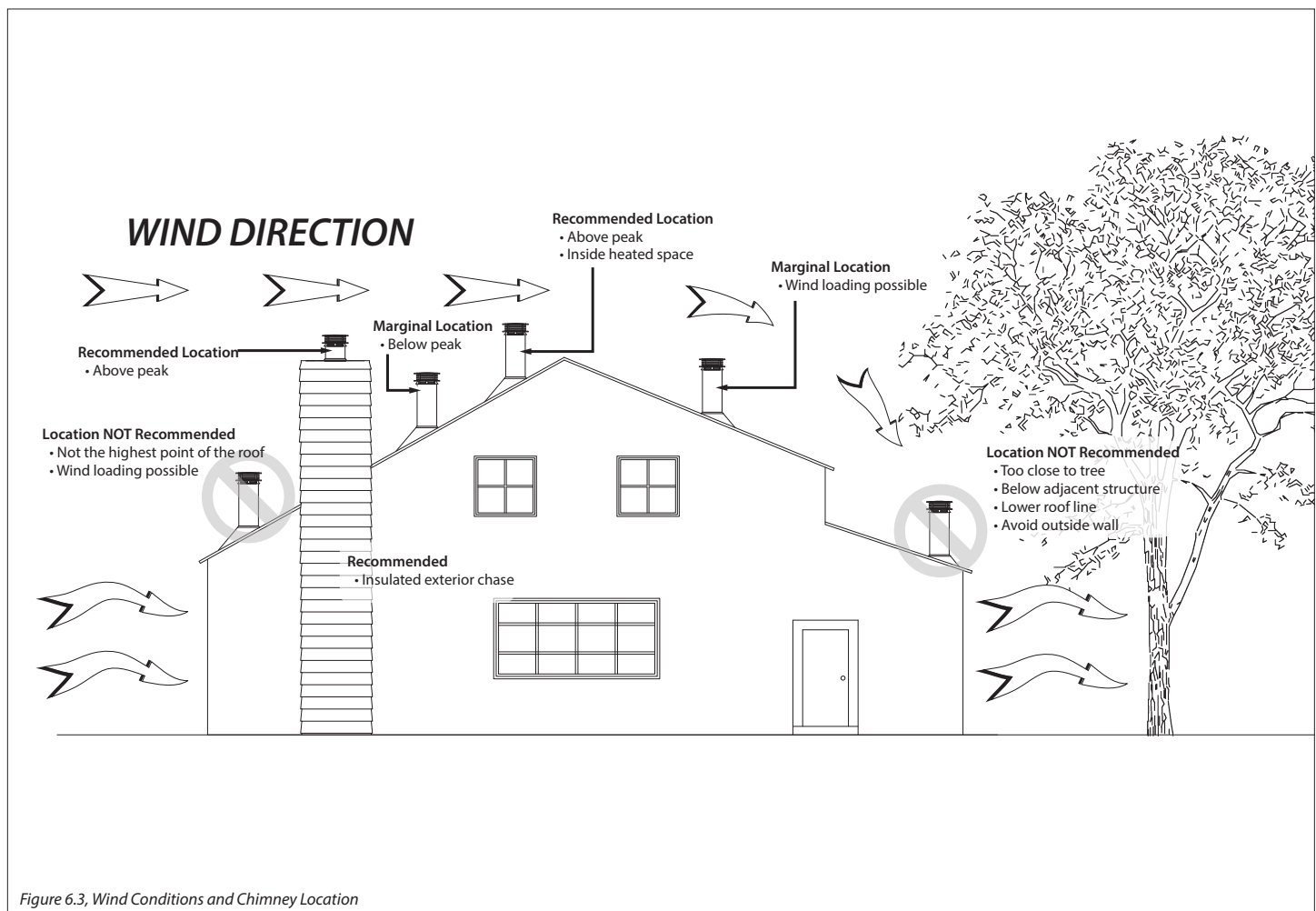
What is draft? Draft is the ability of the vent system to draw air through the air intake pipe, through the appliance, and up the exhaust vent pipe. A functioning exhaust system will pull the exhaust and smoke up the vent pipe and out the termination cap. Inadequate draft may result in excess smoke coming into the house.

A typical household will have appliances such as exhaust fans, forced air furnaces, and clothing dryers that can create negative pressure inside the house. When a household has negative pressure and the fireplace door is opened, the negative pressure will pull the combustion by-products (gas and smoke) into the house. An easy way to alleviate negative pressure is to open up a window in the room containing the fireplace.

The most common factors that cause a poor draft are air supply, environmental conditions, cold chimney temperatures, poor chimney installation and maintenance, and atmospheric pressure.

There can be environmental conditions that cause poor drafting, such as trees, or other structures, around the house. Having a house in a low-lying location (such as a valley), and with windy conditions, can also cause poor drafting. Refer to Figure 6.3 below.

Excessively cold chimneys can cause poor draft. Starting a quick, hot initial fire is important. See Section 9.0 Fireplace Operation on page 36 for additional information. Poor insulation in an exterior chase can also cause excessively cold chimneys.



## 6.5 Chimney Installation

**WARNING:** Refer to chimney manufacturer's instructions for proper framing size, clearance to combustibles, and support bracket requirements.

**WARNING:** The clearance between the chimney and combustible should never be less than 2" (51mm). DO NOT fill this required air space with insulation or other materials.

1. After anchor plate installation, connect first chimney section per manufacturer's installation instructions.
2. Cut and frame required holes in floor, ceiling, and roof where chimney will pass through. See Figure 6.5 on page 30.
3. A firestop must be installed where chimney passes through each floor level. Refer to chimney manufacturer's instructions for part numbers and installation procedures.
4. An attic insulation shield is required by chimney manufacturers for protection where the chimney passes into attic space. This will prevent debris and insulation from coming into contact with the chimney. Refer to chimney manufacturer requirements.
5. Install chimney sections, firestops, attic insulation shields, etc., following chimney manufacturer's instructions and requirements, as well as chimney minimum / maximum height requirements as outlined in this installation manual. See Figure 6.6 on page 30 for combustible chase enclosure for chimney sections installed above the roof.
6. Apply the orange label included in components packet with repeated "WARNING: HOT. Fire Risk. Insulation and combustible must not touch pipe. Consult manual for clearance requirements. Ensure proper protection." to all chimney pipe sections. It is not required on sections that will be visible after the installation is complete. The label must wrap around the chimney circumference.
7. Install flashing, storm collar and chimney cap following chimney manufacturer's instructions.
8. Refer to chimney manufacturer's requirements concerning supports, bracing, anchors, etc.

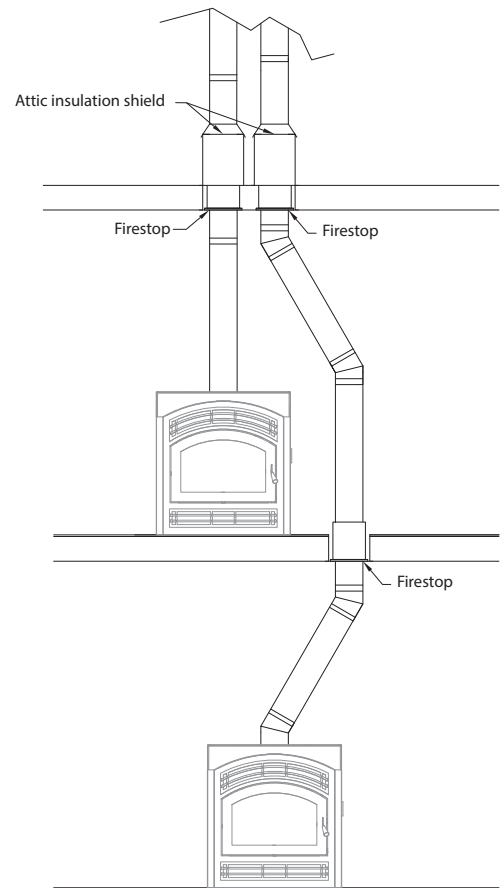
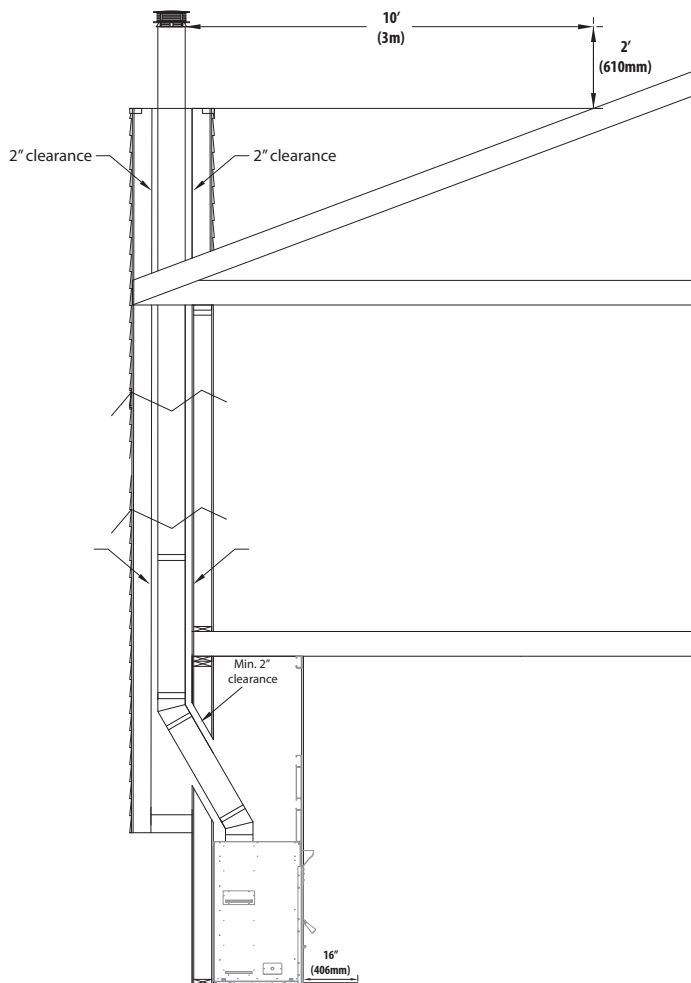
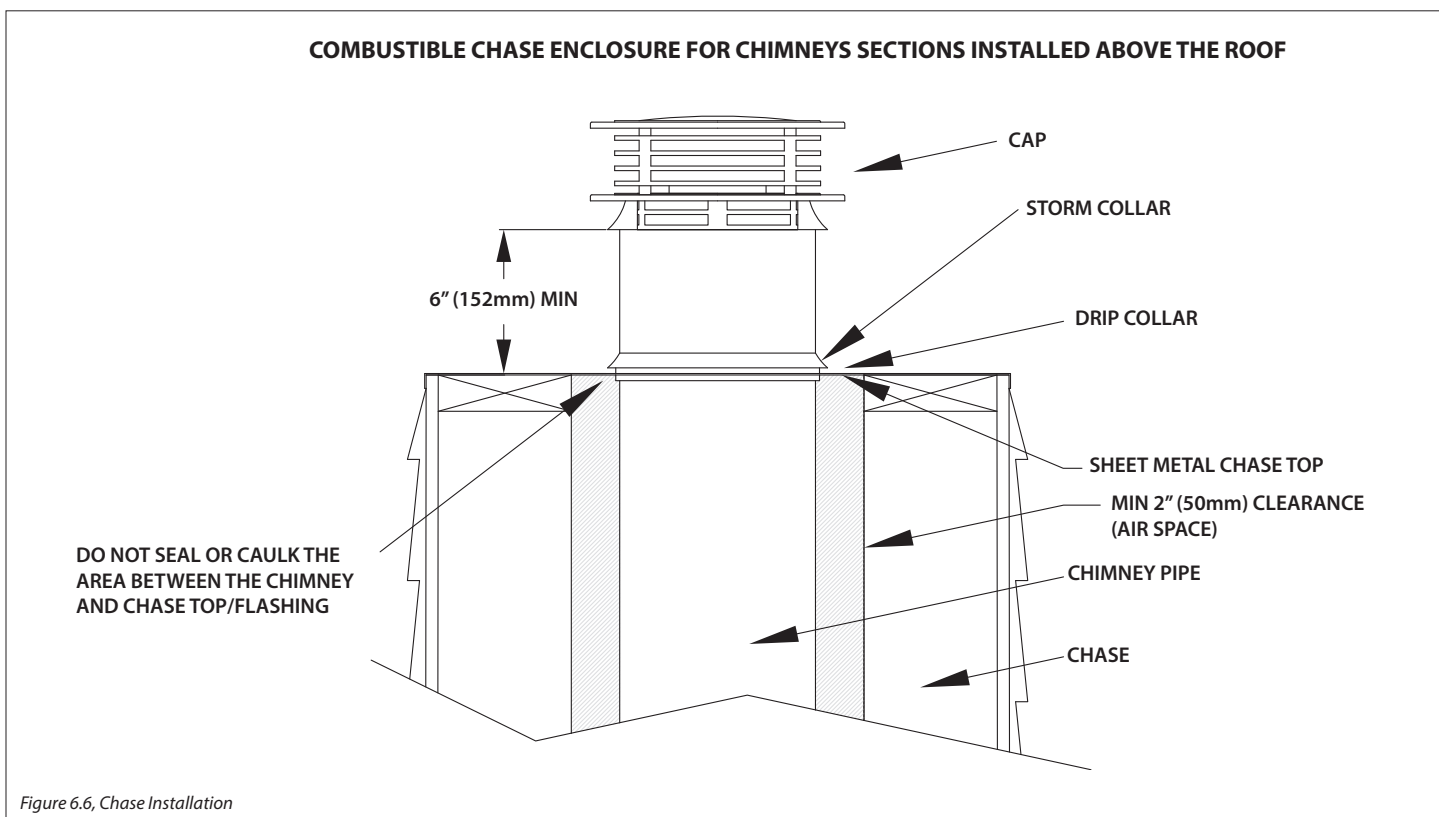
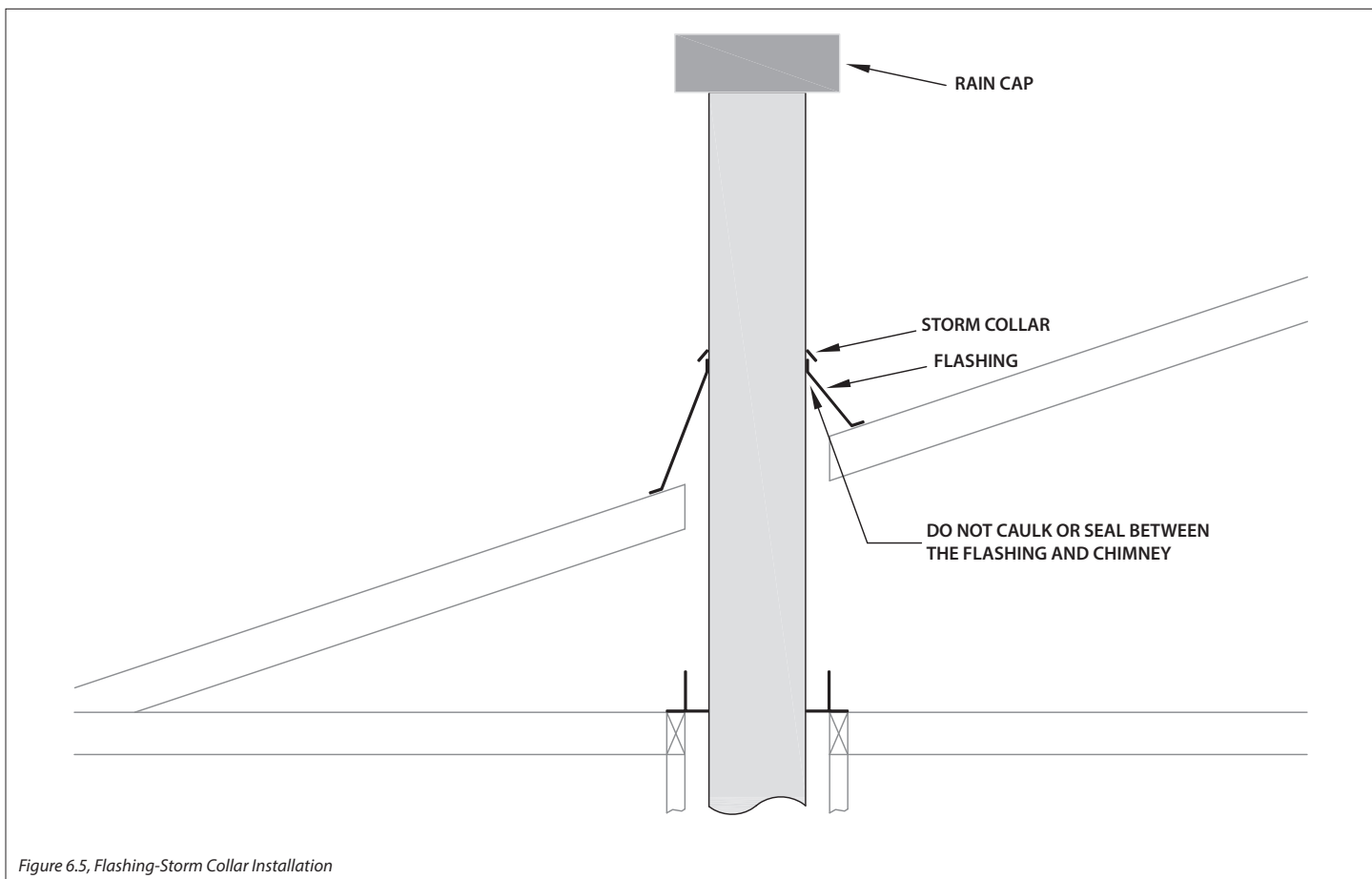


Figure 6.4, Chimney Installation Overview





## 7.0 FIREPLACE SETUP

### 7.1 Firebrick Installation

*The firebrick refractory panel is located on top of the pipes. DO NOT DISCARD.*

*Measure the firebrick to follow along with these instructions.*

The following firebrick are included with this fireplace:

- (7) 4-1/2" x 9" (114mm x 229mm)
- (6) 4-1/2" x 10-3/4" (114mm x 273mm)
- (1) 4-1/2" x 4-1/2" (114mm x 114mm)
- (10) 4-1/2" x 13-1/2" (114mm x 343mm)
- (2) 2-1/2" x 13-1/2" (64mm x 343mm)
- (1) Firebrick Retainer

1. Position (5) 4-1/2" x 13-1/2" (114mm x 343mm) fire bricks and (1) 2-1/2" x 13-1/2" (64mm x 343mm) firebrick along back wall of firebox.

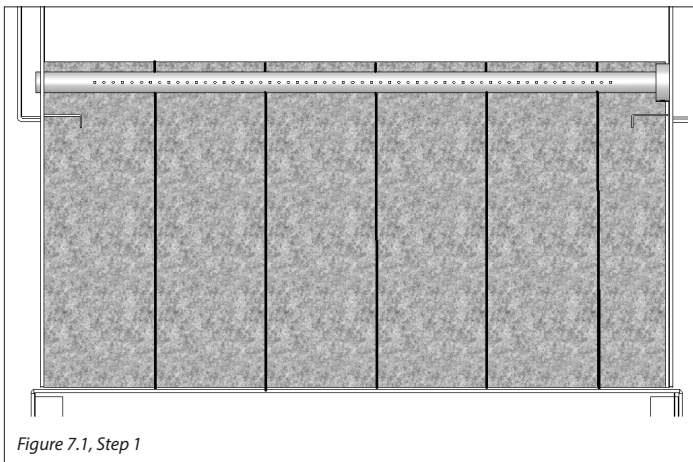


Figure 7.1, Step 1

2. Starting at back, position (3) 4-1/2" x 10-3/4" (114mm x 273mm) firebricks under firebrick brackets along each side of firebox.

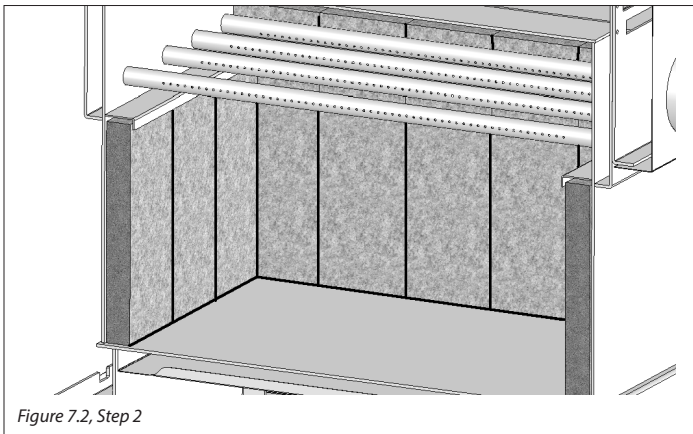


Figure 7.2, Step 2

3. Place (7) 4-1/2" x 9" (114mm x 229mm) firebricks and (1) 4-1/2" x 4-1/2" (114mm x 114mm) firebrick on firebox bottom (at the center back).
4. Lay (5) 4-1/2" x 13-1/2" (114mm x 343mm) fire bricks and (1) 2-1/2" x 13-1/2" (64mm x 343mm) firebrick over the firebrick refractory panel that rests on (4) stainless steel pipes at top of firebox.
5. With the 45° flange down, slide firebrick retainer between the top of the first pipe & firebrick. Push retainer back until it is against the front of firebrick and under the refractory panel.

6. Set retainer down on top of pipe. The 45° flange on the firebrick retainer should now be behind the first pipe.

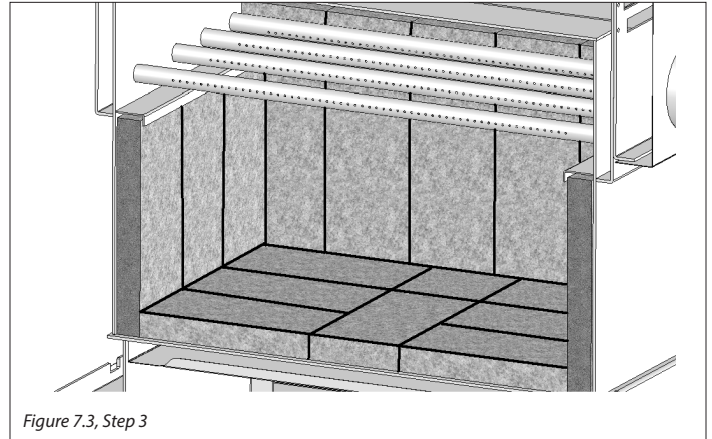


Figure 7.3, Step 3

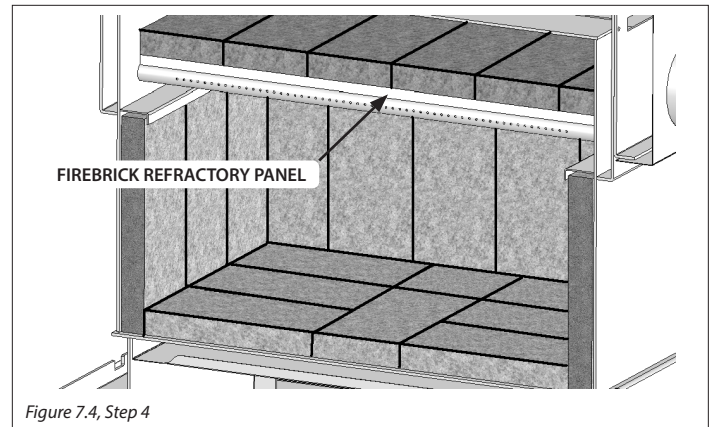


Figure 7.4, Step 4

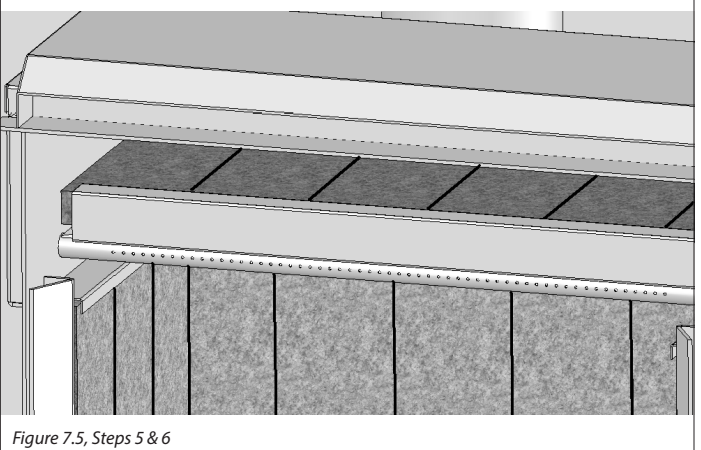
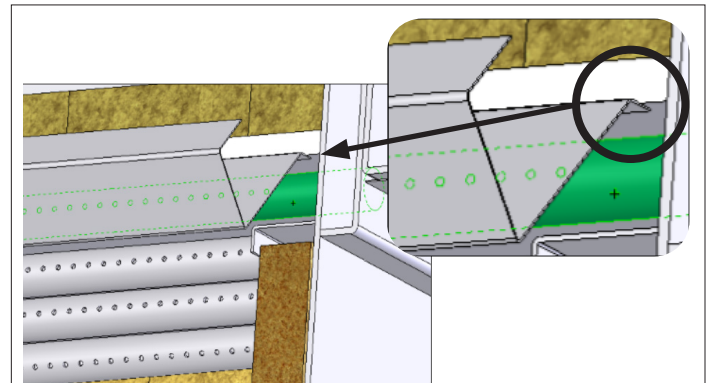


Figure 7.5, Steps 5 & 6

## 7.2 Grill Set Installation and Removal

*Sold separately.*

### 7.2.1 Upper Grill

1. Locate the (2) slots on both sides of the upper grill opening.
  2. Align the notched tabs located on the back of the upper grill with the slots on the fireplace.
  3. Raise the upper grill slightly into slots and allow the tabs to lower into position.
- To remove upper grill: lift the grill up and out of slots.

### 7.2.2 Lower Grill

1. Locate the (2) slots on both sides of the lower grill opening.
  2. Align the notched tabs located on the back of the lower grill with the slots on the fireplace.
  3. Raise the lower grill slightly into slots and allow the tabs to lower into position.
- To remove lower grill: lift the grill up and out of slots.

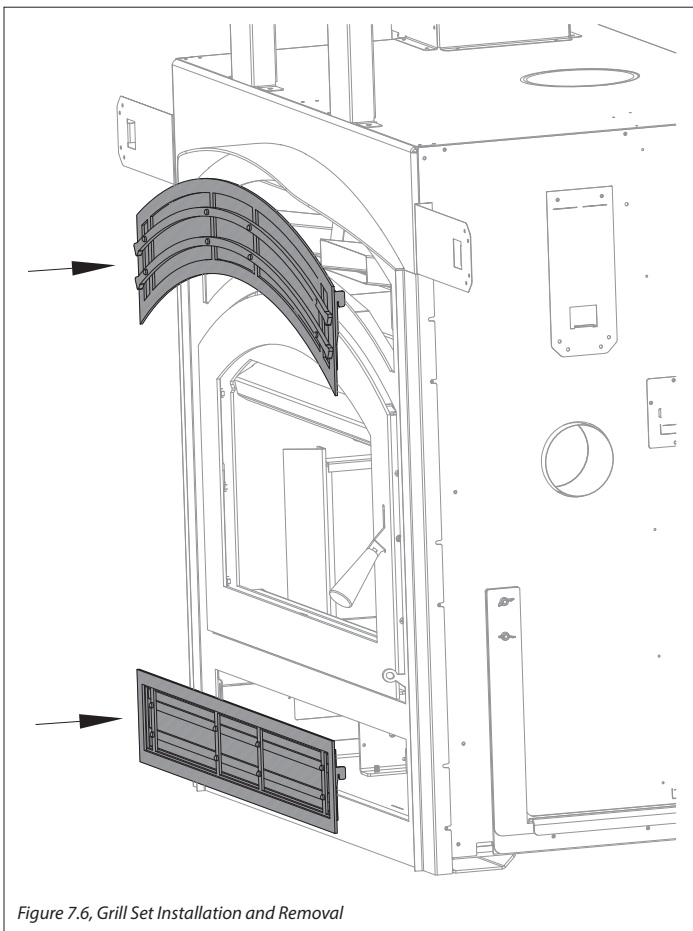


Figure 7.6, Grill Set Installation and Removal

## 7.3 Door Handle Installation

There is a threaded handle in the components packet. Install on threaded rod shown in Figure 7.7 by turning the handle clockwise until it is hand-tight.

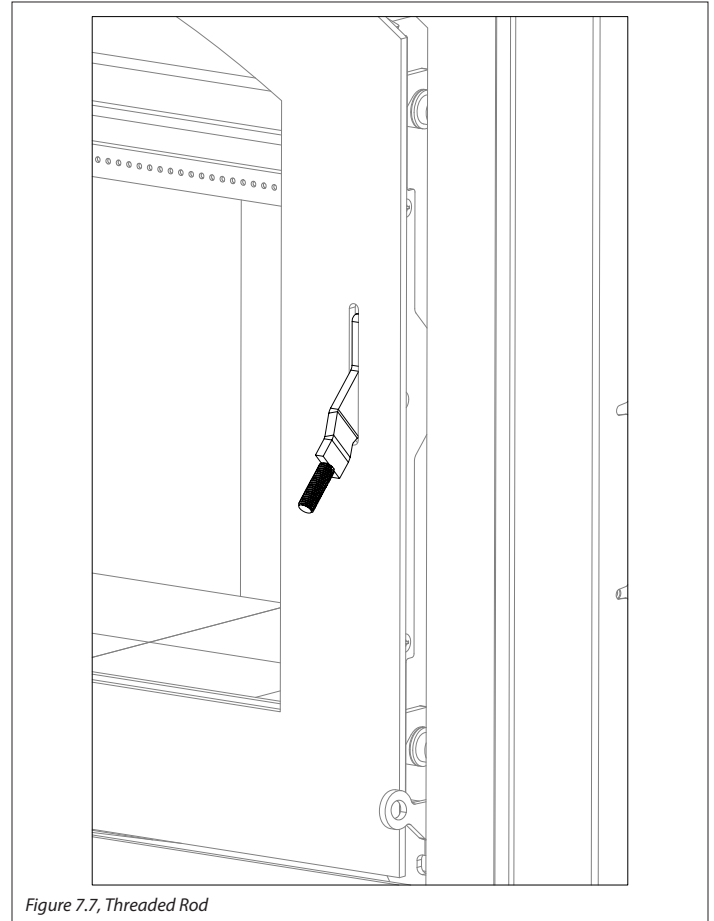


Figure 7.7, Threaded Rod



## 7.4 Door Seal Alignment and Adjustment

**NOTICE TO INSTALLER AND HOMEOWNER:** Achieving a proper seal and door alignment is a trial and error adjustment. You may need to make additional minor adjustments after the first few initial burn periods. Deposits which collect on the glass corner(s) while fireplace is in operation indicates an improper seal, indicating door should be adjusted as instructed below.

Every effort has been made at the factory to ensure a proper door seal prior to shipment. Misalignment, however, may still occur during shipment, installation, or mishandling.

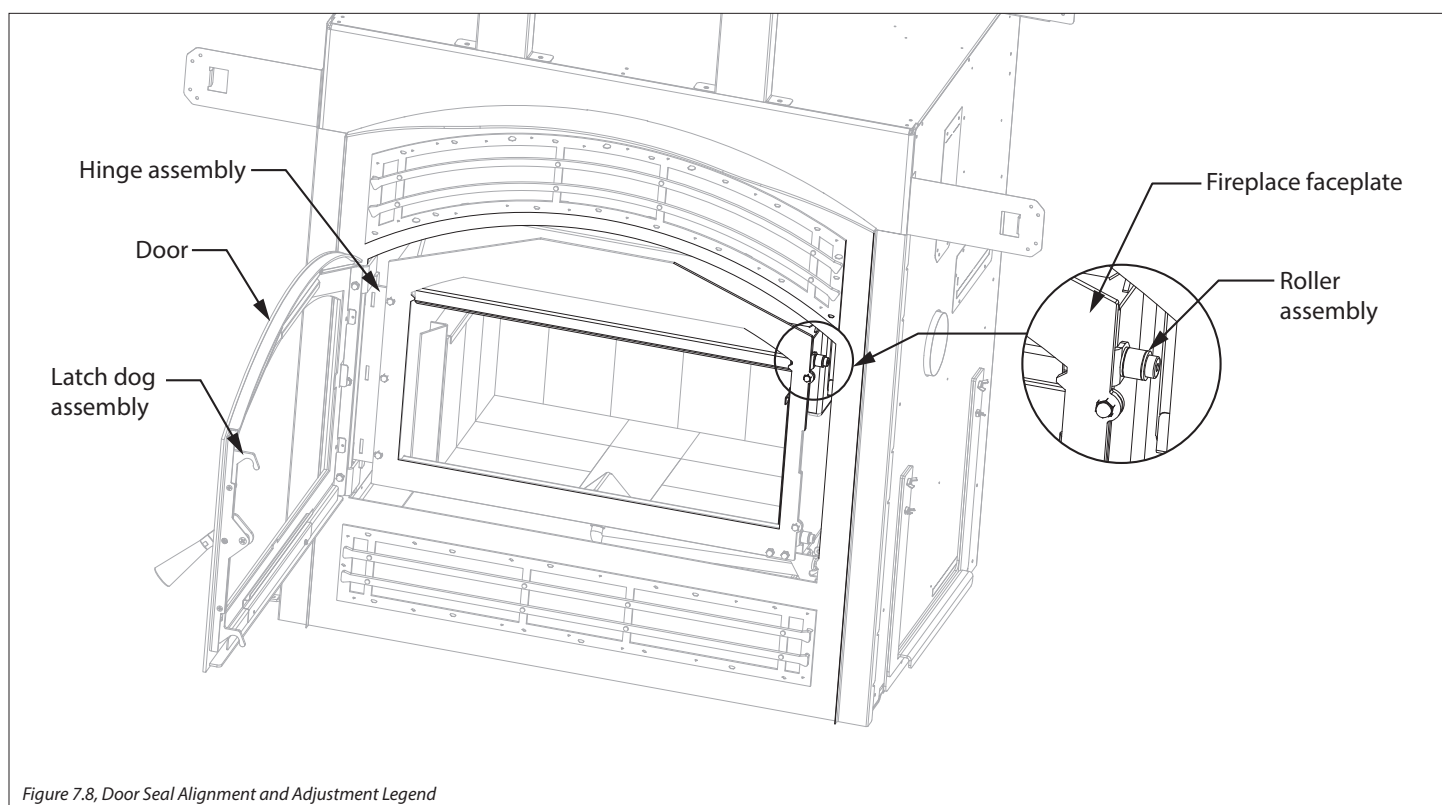
The following procedures will help you determine if the door is sealing properly, and how to achieve a proper seal.

### 7.4.1 Check the Door Seal

1. Close and latch door.
2. Check seal by pushing against corners of glass.
  - No movement indicates proper seal.
  - Any movement between the glass and firebox face at any corner indicates an inadequate seal. This will create creosote build-up on glass and cause the fire to burn faster.

**Use the illustration below as a guide for the parts used for adjustment procedures.**

**Adjustment procedures are on the following page.**



## 7.4.2 Door Catch Adjustment

**NOTE:** Washers are provided in the components part packet. You may only need to place a washer at the top or bottom mounting bolt of the mounting bracket, depending on where the seal needs adjustment.

You will be adjusting in the roller assembly to 'catch' the latch dog assembly.

1. Open door.
2. Remove and save acorn nut on the fireplace faceplate securing the roller assembly.
3. Place a washer (included in parts packet) onto top and/or bottom mounting bolt on roller assembly.
4. Re-install acorn nuts.
5. Re-check door seal as instructed in Section 7.4.1 on page 33.

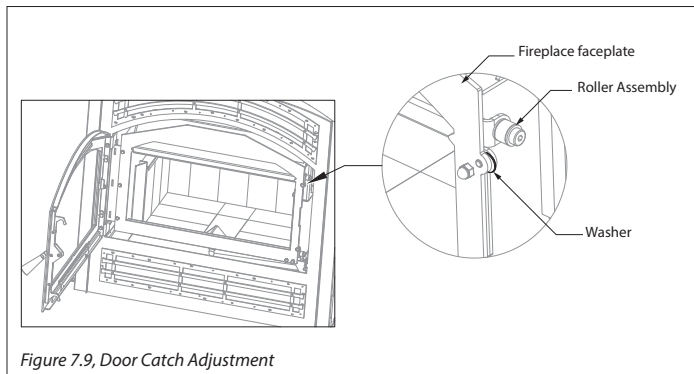


Figure 7.9, Door Catch Adjustment

## 7.4.4 Latch Adjustment

You will be adjusting the hinge assembly for a better point of contact to the roller assembly.

1. Open door.
2. Remove and save acorn nuts securing the hinge assembly to the fireplace faceplate.
3. Adjust the hinge assembly left or right.
4. Close and latch door. Verify latch dog assembly aligns to roller assembly.
5. Re-install acorn nuts.
6. Re-check door seal as instructed in Section 7.4.1 on page 33.

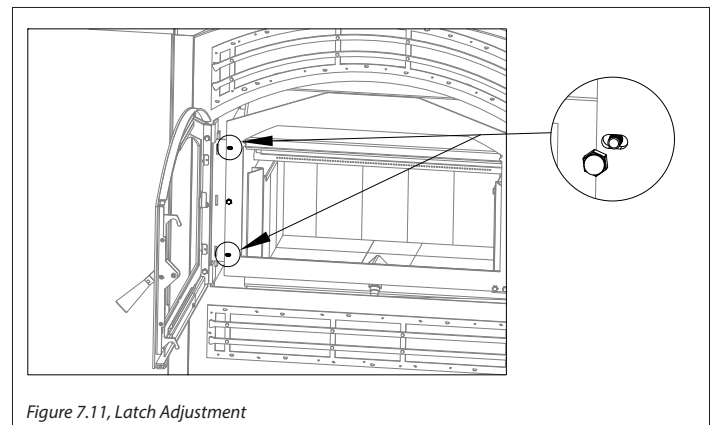


Figure 7.11, Latch Adjustment

## 7.4.3 Door Adjustment

You will be adjusting the door up or down when attached to the hinge assembly.

1. Open door.
2. Remove and save flange nut securing the door to the hinge assembly.
3. Adjust the door up or down so it is level and seals properly.
4. Re-install flange nuts.
5. Re-check door seal as instructed in Section 7.4.1 on page 33.

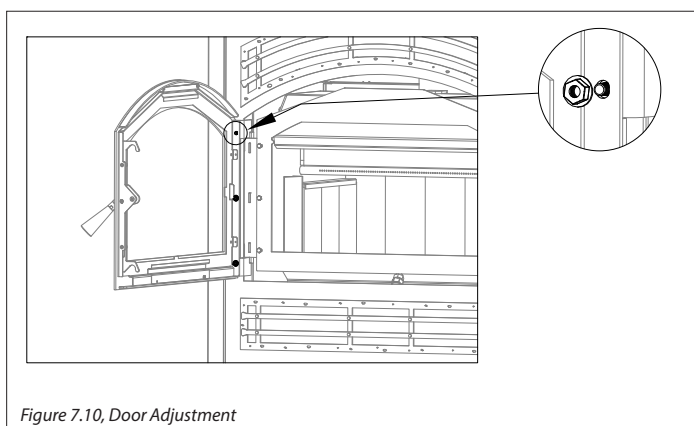


Figure 7.10, Door Adjustment

## 8.0 FIREWOOD SELECTION AND CONSIDERATIONS

### 8.1 Materials that should not be burned

#### DO NOT BURN

- (1) Garbage;
- (2) Lawn clippings or yard waste;
- (3) Materials containing rubber, including tires;
- (4) Materials containing plastic;
- (5) Waste petroleum products, paints or paint thinners, or asphalt products;
- (6) Materials containing asbestos;
- (7) Construction or demolition debris;
- (8) Railroad ties or pressure-treated wood;
- (9) Manure or animal remains;
- (10) Salt water driftwood or other previously salt water saturated materials;
- (11) Unseasoned wood; or
- (12) Paper products, cardboard, plywood, or particleboard. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, saw dust, wax and similar substances for the purpose of starting a fire in an affected wood heater. Burning these materials may result in release of toxic fumes or render the heater ineffective and cause smoke.

### 8.2 Preparing and Purchasing Firewood

**WARNING: FOR USE WITH SOLID FUEL ONLY.**

*Only use solid wood or processed solid fuel firelogs. If processed solid fuel firelogs are used, do not poke or stir logs while they are burning. Use only firelogs that have been evaluated for the application in fireplace, and refer to firelog warnings and caution markings on packaging prior to use.*

*Some fuels, such as charcoal, may generate carbon monoxide, a dangerous, odorless gas. Exposure to carbon monoxide may cause serious illness or death.*

#### 8.2.1 What is good firewood?

Good firewood has been cut to the correct length for the fireplace, split into a range of sizes for different types of burns, and stacked in the open until its moisture content is between 15 to 20 percent. Purchasing a wood moisture meter is recommended.

You may hear the term “seasoned firewood,” which refers to wood that has been left out to dry. Higher efficiencies and lower emissions generally result when burning seasoned firewood that is in between the specified moisture content (15% to 20%).

Firewood that is not dry enough can lead to undesirable effects. Burning green or unseasoned wood produces more creosote, resulting in more maintenance for the homeowner to have the chimney cleaned. Unseasoned wood makes starting a fire difficult and will make the glass door dirtier.

#### 8.2.2 Types of wood

When looking at the different types of wood, you will find out that species of trees are referenced as either hardwood or softwood. The species of the firewood is less important than its moisture content. Hardwoods are denser than softwoods. Hardwood will burn a little longer and slower than softwood.

When homeowners have access to both hardwood and softwood, they can burn specific wood depending on the climate and type of fire they desire. During milder weather, typically in fall and spring, softwood can be burned for a quicker fire with less heat. Hardwoods can be best used for colder winter weather.

#### 8.2.3 Log length and size

Logs should be cut at least 1” (25mm) shorter than the firebox. This will ensure the logs can be easily loaded into the firebox. Splitting firewood is important for effective drying of the firewood, but also for fireplace operation. When firewood is split, it will dry much faster than large, unsplit pieces. Wood should be split into various sizes, as you will want smaller split pieces for kindling compared to loading the fireplace for an extended burn.

#### 8.2.4 Drying firewood

***Some things to consider when drying wood:***

- (1) Firewood takes a long time to dry,
- (2) Firewood bought from a dealer or a reputable seller may still not be dry enough to burn, check the moisture level when you get home,
- (3) Drying happens faster in dry weather climates – if you are located in maritime climates it will take longer to dry your wood,
- (4) Small pieces will dry faster than larger pieces,
- (5) Split pieces will dry faster than unsplit pieces,
- (6) Softwoods generally dry faster than hardwoods,
- (7) Firewood dries faster when it is stacked in the open, compared to being stacked inside a wood shed where there is no airflow.



Figure 8.1, Split, stacked wood

## 9.0 FIREPLACE OPERATION

### 9.1 Fireplace Safety Information

*Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and other individuals at-risk are susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the home. 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.*

**WARNING: DO NOT INSTALL A FIREPLACE INSERT OR ANY OTHER PRODUCT NOT SPECIFIED FOR USE WITH THIS FIREPLACE.**

**WARNING: THIS FIREPLACE HAS NOT BEEN TESTED WITH ANY GAS COMPONENT OR ACCESSORY. DO NOT INSTALL A GAS COMPONENT, INCLUDING A GAS LOG SET, INTO THIS FIREPLACE.**

### 9.2 Initial Fireplace Operation

There are a few items to note for the initial operation of your fireplace.

- Do not store clothing, furniture or combustibles within 36" (914mm) of the fireplace.
- Except when loading and during start-up burn, the fireplace must be operated with the door fully closed.
- As the paint cures, you may notice some light smoke or vapor coming off the fireplace. These vapors are not poisonous but do have an odor. If possible, open doors/windows to promote air flow through the house to get rid of these vapors and odor. Depending on your location of a smoke detector, this can cause a false alarm. As you burn a hotter fire, more of the painted surfaces will continue to cure. The paint curing process may not happen all at once.

### 9.3 Building a Fire

There are a number of ways to arrange your firewood and build a fire. As you become more familiar with your wood fireplace, you will develop your method to building a fire with the goal of creating a hot, quick fire. The quicker you can produce a hot fire, the less smoke and creosote will be produced. In the next three subsections, we will outline three popular methods to start fires. We recommend the log cabin method.

If you are building a fire after an existing burn, it is advised to keep some of the existing coal bed to help build a fire quicker. See Section 9.4 Maintaining a Wood Fire on the following page.

#### 9.3.1 Method 1 - Log Cabin (recommended)

You will be building a fire with a log cabin style of stacking wood.

1. Place (2) full sized split pieces of seasoned wood in the firebox, running front to back, where one piece will occupy each side of the firebox.
2. Place (2) to (4) medium sized split logs running side to side on top of the larger pieces of split wood.
3. Place smaller kindling wood in the center of the firebox. Fully open the air damper and ignite the kindling. You will close the door as to leave approximately a 1" to 2" gap between the door and the firebox.

Once the fire is burning well, where the kindling has burned through and the stacked layer of medium split pieces of firewood are burning well, you are able to close your door completely.



Figure 9.1, Log Cabin Method

#### 9.3.2 Method 2 - Traditional

You will be building a fire with a traditional style of burning kindling first, then adding large pieces of wood.

1. Place several thin pieces of kindling wood in the center of the firebox. These kindling pieces should be less than a 1" (25mm) diameter thick. You can also use chunks of bark.
2. Place some larger pieces of kindling on top previous thin kindling wood. Verify the air damper is fully open and then ignite the kindling. You will close the door as to leave approximately a 1" to 2" gap between the door and the firebox.

Once the fire is burning well and your kindling is mostly burned, you can continue to add larger pieces. When you have established a good fire and coal bed, you can close the door completely.



Figure 9.2, Traditional Method



### 9.3.3 Method 3 - Top Down

You will be building a top down fire where the small kindling is placed on top of larger pieces.

1. Start by placing (2) to (3) full sized split pieces of seasoned wood in the firebox. Then place (4) to (5) medium split pieces of wood on top of the larger wood base.
2. Place finely split kindling wood on top. Fully open the air damper and ignite the kindling. You will close the door as to leave approximately a 1" to 2" gap between the door and the firebox.

Once the fire is burning well, where the kindling has burned through and the layer of medium split pieces of firewood are burning well, you are able to close your door completely.



Figure 9.3, Top Down Method

### 9.3.4 Use of fire starters

Many wood fireplace owners like to use commercial fire starters instead of kindling. Fire starters are also commonly used after the fireplace has not been used for a period of time, which results in a cold start. They will help facilitate a quick, hot initial fire which will help create a good draft in the chimney system. Some of these fire starters are made up of a gel, compressed sawdust and wax, and others are specialized chemical products. If you decide to use one of these fire starters, follow manufacturer's instructions that relate to a wood burning fireplace. **DO NOT** use flammable liquids such as gasoline, fuel oil, kerosene, motor oil, aerosols, or other unapproved items.

## 9.4 Maintaining a Wood Fire

Your wood fireplace will operate as a space heater. You will see variations in the amount of heat produced during operation. Heat production will vary throughout the burning of the wood (fuel), allowing the homeowner to gain experience in understanding the heat output within the house.

The amount of wood (fuel) loaded into the fireplace can be matched to the amount of heat output needed. A full load of wood, generally (3) pieces of firewood, will provide several hours of high heat output. The use of the air intake damper will help the homeowner regulate their fire based on their needs. See Section 9.5.1 Air intake damper for more information on regulating the fire.

### 9.4.1 Utilizing a Coal Bed

When the wood is consumed and you are down to a bed of coals, you can rake the coals toward the front and center of the firebox before loading more firewood. It will concentrate the remaining hot coals where the combustion air enters the firebox and it will help ignite the next load of firewood quicker. Open the air damper to help the next load of fuel reignite faster before closing the damper back down to achieve a longer burn.

When you remove ashes from your fireplace, it is recommended to leave behind a small bed of coals. They will help in building your next fire. See Section 10.1 Ash Disposal on page 38 for more information on ash disposal.

## 9.5 How to Operate the Albany Fireplace

**WARNING:** This fireplace should be operated only with the door closed and latched. Operating the fireplace with the door open causes flames to be drawn out into the living space, creating a smoke and fire risk.

1. Open intake damper by setting it in the 'high' open position. See the drawing below.
2. Open the door.
3. Build a base of kindling wood and small logs placed on the firebox floor, with a couple of larger logs on top. The base should be in the front center of the firebox.  
For cold startups, we suggest using an fire starter. See Section 9.3.4 Use of fire starters on page 37 for approved fire starters.
4. Do not elevate fire. Do not use a grate, andirons, or other methods of supporting the fuel.
5. Light fire with matches.  
**NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR 'FRESHEN UP' A FIRE. KEEP ALL SUCH LIQUIDS WELL AWAY FROM FIREPLACE WHILE IT IS IN USE.**
6. As the fire builds push the door closer to the firebox to promote a good fire start-up. Leave approximately a 1" gap between the door and the firebox. Keep the damper in the 'high' open position.
7. As the kindling continues to burn add slightly larger wood. Leave the door open at the approximate 1" (25mm) gap until this wood has burned through to create a good bed of coals.
8. With a good coal bed and fire you are able to load average sized wood. Load 2-3 pieces and close the door completely.

*Do not leave the fireplace unattended while a fire is being started. Once the fire is fully started, and the door is completely sealed, you are able to leave the fire unattended.*

9. Adjust intake damper to desired heat output position. See Figure 9.4. To keep glass cleaner, never completely close the intake damper. See Section 9.5.1 Air intake damper for more information.

### 9.5.1 Air intake damper

The Albany has an air intake damper, which regulates how much outside air is brought into the fireplace for combustion. When performing a cold start or rekindling a fire from a coal bed make sure the damper is in the fully open position. By leaving the damper fully open, you will produce the most heat. This will also burn the fuel quicker. As you become experienced with your fireplace and matching its use to your lifestyle, you will figure out when it is applicable to close the air intake to achieve a longer fire.

When you are loading the fireplace to produce heat for the remaining of the night, you will want to have the air intake fully open for a brief period to ensure flames engulf the new firewood. Make sure you have a large bed of coals for overnight burns like this. Do not leave the air intake fully open for too long before you begin to close the air intake damper until you have it at your desired position. A fully closed air intake will achieve the slowest burn and allow more heat transfer from the fireplace. As the flames in the fireplace slow down you are increasing the efficiency of the fireplace. Depending on the wood and other factors, some soot may build up on the glass when the air intake is fully closed.

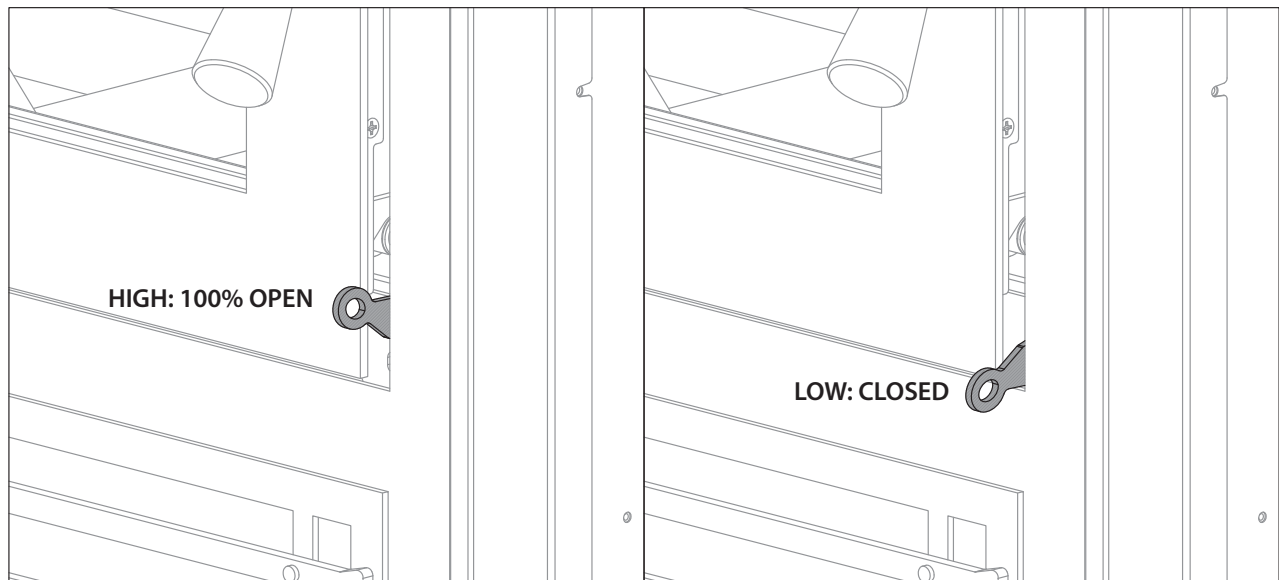


Figure 9.4, Air Intake Adjustment

# 10.0 MAINTENANCE REQUIREMENTS

## 10.1 Ash Disposal

Ash should be periodically removed from a cold fireplace. NEVER remove ash from a hot fireplace. Depending on the amount and type of wood burned, and the length of your burn cycles, the time in between ash removals will vary. When you remove ashes from your fireplace, it is recommended to leave behind a small bed of coals. They will help in building your next fire.

The best time to remove ash is after an overnight burn when the fireplace is relatively cool but draft is still established. Ashes normally contain some live embers that can stay hot for a long time. Use a metal container with a tight-fitting lid. The closed container of ashes should be removed from the interior of the house and to a non-combustible floor, well away from all combustible materials, pending final disposal.

If the ashes are disposed of by burial in the soil or otherwise locally dispersed, they must be retained in the closed container until all cinders have thoroughly cooled.

## 10.2 Creosote - Formation and Need for Removal

When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire.

The chimney should be inspected monthly during the heating season to determine if a creosote buildup has occurred. If a significant layer of creosote has accumulated (1/8" [3mm] or more) it should be removed to reduce the risk of a chimney fire.

Inspection can be accomplished from the top of chimney cap or from inside the stove by removing upper firebrick.

We recommend a professional chimney cleaner inspect and clean the chimney at least once annually.

## 10.3 Chimney Fire

Regular chimney inspections and maintenance can prevent chimney fires. If a chimney fire occurs, follow these guidelines:

- If possible, close the fireplace door if it is open, and fully close the air intake damper.
- Alert and remove all individuals in the building.
- If you require assistance, contact emergency services, such as a fire department.
- After the fire is extinguished, do not use the fireplace again until the chimney and fireplace have been inspected by a qualified chimney sweep, fireplace technician, and/or a fire department inspector.

## 10.4 Glass Information

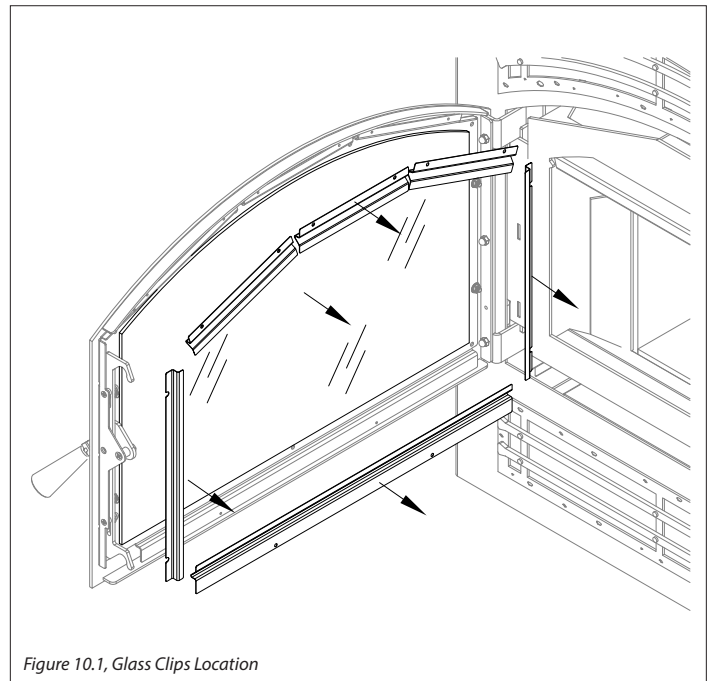
***Do not operate this appliance with the glass frame assembly removed, cracked, or broken. The glass assembly shall only be replaced as supplied by Hussong Mfg. Co., Inc. Replacement of the glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.***

- Do not strike or slam doors. This may cause glass damage.
- In the event of glass breakage, let fireplace cool completely.
- DO NOT USE THIS FIREPLACE WITH BROKEN OR CRACKED GLASS.

- Replace only with Kozy Heat #701-060T replacement 5mm glass (17.466" x 26.750") glass obtained from your dealer or certified for use with this fireplace. Do not substitute materials.
- Clean glass on a regular basis. Should glass become discolored with creosote, follow this procedure for easy removal.
  - Burn fireplace with the outside air damper completely open for 30-45 minutes. This will normally clean the glass and also minimize ashes in the firebox.
  - Oven cleaner, or a cleaner specifically designed for fireplaces, may also be used. DO NOT use abrasive cleaners. Clean only when glass is cool.

### 10.4.1 Broken Glass Removal

1. Open door.
2. Remove and save screws securing the (6) glass clips surrounding the glass, as shown below.
3. Carefully lift broken glass out.
4. Place new glass with gasket inside door frame (gasket with second layer should be facing you).
5. Secure glass with glass clips and screws previously removed. (Glass clips are placed between first and second layers of gasket).



## 10.5 Door Replacement

1. Open door.
2. Remove and save the (3) acorn nuts securing the door to the hinge assembly.
3. Install new door with (3) acorn nuts previously removed.
4. Refer to Section 7.4 Door Seal Alignment and Adjustment on page 33 for proper door sealing and adjustment.

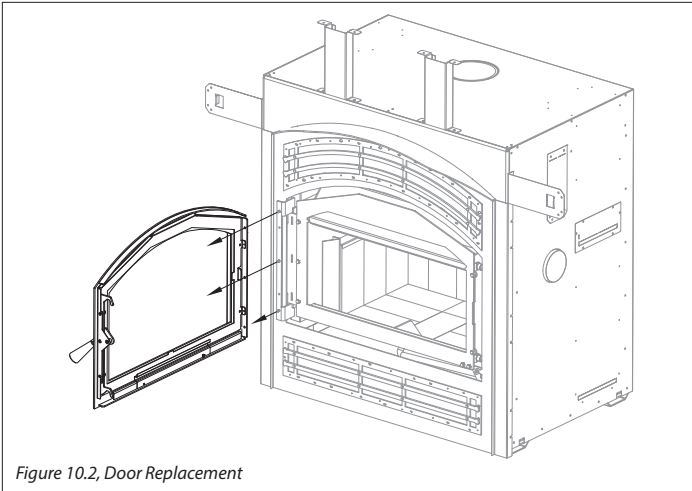


Figure 10.2, Door Replacement



## 11.0 TROUBLESHOOTING

| Issue                                                                             | Cause                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smoke enters back through door when opened                                        | Negative pressure in the home.                                                                                                                                                  |
| Smoke enters back when first starting fire                                        | Chimney not high enough.<br>Cool wind cooling poorly insulated chimney.                                                                                                         |
| Smoke enters the room when the fire dies down                                     | Adjacent structures, trees, etc., too close to chimney.<br>Remove or raise chimney. See Section 6.4 Chimney Location and Considerations on page 27.                             |
| Smoke exits out of doors or intake pipe when the wind is from a certain direction | Screen on chimney top too fine, or plugged.<br>Restriction within chimney (creosote, mortar, leaves, bird nest, etc.).<br>Ice buildup on chimney top.                           |
| Fireplace will not generate enough heat                                           | Wood not seasoned or is wet from snow or rain. See Section 8.0 Firewood selection and considerations on page 35.<br>Not enough wood being burned.<br>Obstructed grill openings. |
| There is an odor coming from the fireplace                                        | New paint. This odor will disappear after several burn periods.<br>Open doors & windows to ventilate during initial burn period.                                                |
| Fireplace will not light                                                          | Damp, wet, unseasoned wood. See Section 8.0 Firewood selection and considerations on page 35.<br>Poor draft. See Section 6.4 Chimney Location and Considerations on page 27.    |

## 12.0 REPLACEMENT PARTS

Replacement parts are available through your local dealer. Contact your local dealer for availability and pricing.

**WARNING:** This product and the fuels used to operate this product (wood), and the products of combustion of such fuels, can expose you to chemicals including carbon black, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

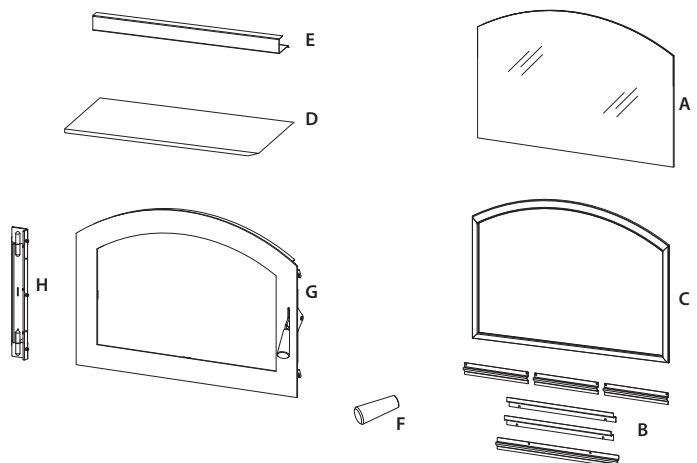
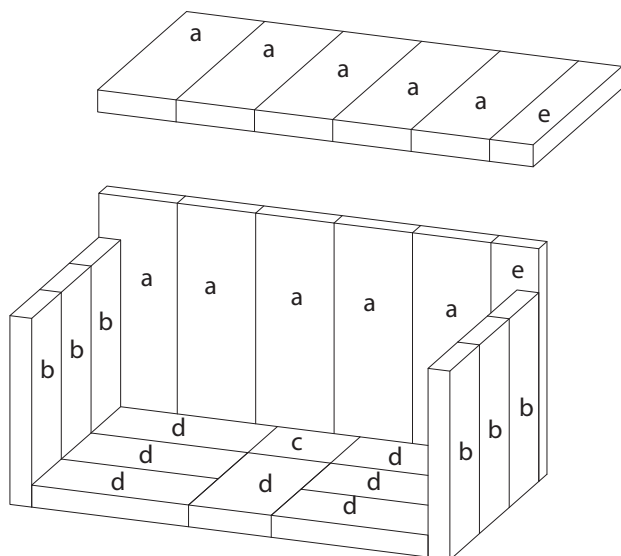
| OPTIONAL ACCESSORIES |                                                              |
|----------------------|--------------------------------------------------------------|
| HTK-INT              | Heat Transfer Kit - Interior*<br>*requires HTK-ABY air chute |
| 945                  | 4" Air Vent Non-Closure                                      |

| OPTIONAL FAN KIT |                       |
|------------------|-----------------------|
| 600-1            | Fan Kit (2) 110 CFM   |
| 404-4            | Limit Switch Assembly |
| 600-085          | Speed Control (only)  |

| FIREBRICK |         |                            |
|-----------|---------|----------------------------|
|           | Z42-500 | Z-42 Firebrick Kit         |
| a         | Z42-501 | 13-1/2" x 4-1/2" Firebrick |
| b         | Z42-503 | 10-3/4" x 4-1/2" Firebrick |
| c         | Z42-504 | 4-1/2" x 4-1/2" Firebrick  |
| d         | Z42-502 | 9" x 4-1/2" Firebrick      |
| e         | Z42-505 | 13-1/2" x 2-1/2" Firebrick |

| GRILL SETS |                       |
|------------|-----------------------|
| ABY-KEY-U  | Keystone Upper Grill  |
| ABY-KEY-L  | Keystone Lower Grill  |
| ABY-MIS-U  | Mission Upper Grill   |
| ABY-MIS-L  | Mission Lower Grill   |
| ABY-HAR-U  | Harlequin Upper Grill |
| ABY-HAR-L  | Harlequin Lower Grill |

| ALBANY REPLACEMENT PARTS |          |                                    |
|--------------------------|----------|------------------------------------|
| A                        | 701-060T | Replacement Glass                  |
| B                        | 200-182  | Glass Clips (6)                    |
| C                        | 900-006  | 1-1/8" Glass Gasket with Adhesive  |
| D                        | Z42-900  | Refractory Brick Panel             |
| E                        | 111-121  | Stainless Steel Firebrick Retainer |
| F                        | 500-308  | Black Wooden Handle                |
| G                        | ABY-DOR  | Door                               |
| H                        | ABY-HIN  | Hinge Assembly                     |



Hussong Manufacturing Co., Inc.  
P.O. Box 577  
204 Industrial Park Drive  
Lakefield, MN 56150-0577 USA  
ABY



# LIMITED 20 YEAR WARRANTY

## Warranty Coverage

Hussong Manufacturing Company, Inc. (Hussong Mfg.) warrants this Kozy Heat wood burning appliance from the date of purchase to the original purchaser, that it is free of defects in materials and workmanship at the time of manufacture. Registering your fireplace warranty does not require any documents to be sent in to Hussong Mfg. Please retain your proof of purchase reflecting the date of purchase along with the serial number and model of your fireplace for any future warranty claims.

*If a defect is noted within the warranty period, the customer should contact their authorized dealer for service within 30 days.*

### 30 Days: Parts & Labor\*

- Paint
- Gasket material

### Year 1: Parts & Labor\*

- Glass (breakage from thermal shock)

- Handles
- Firebrick and top refractory panel
- Fan kit and speed control

*\*Hussong Mfg. will issue labor reimbursement to an authorized dealer only. Hussong Mfg. will not be liable for charges occurred as a result of any service performed by a non-authorized service provider, without pre-authorization.*

### Years 2 through 20: Parts Only

- Firebox assembly
- Outer fireplace shell
- Door assembly
- Air tubes (against warpage)
- Air tube support brackets
- Ash lip / hearth extension
- Firebrick retainer

## EXCLUSIONS AND LIMITATIONS

1. This appliance must be installed by a licensed, authorized service technician or contractor. It must be installed, operated and maintained at all times in accordance with the instructions in the owner's manual or the warranty is void.
2. This warranty is nontransferable and is made to the original purchaser only.
3. This warranty excludes standard wear and tear of the appliance which is considered normal usage over time. Damage resulting from operational-related problems such as over-firing, down drafts, smoke spillage, corrosive woods are not considered warranty problems and will not be covered.
4. Discoloration and some minor expansion, contraction or movement of certain parts, resulting in noise, is normal and not a defect.
5. Warranty is automatically voided if the appliance's serial number and/or testing label is removed or if the appliance is altered or tampered with in any way.
6. Warranty is void if the appliance is subject to submersion in water or prolonged periods of dampness or condensation. Any damage to any part of the appliance due to water or weather damage which is the result of, but not limited to, improper chimney/venting installation will also render this warranty void.
7. This warranty does not cover installation and operational related problems such as environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures caused by any mechanical systems.
8. Chimney components and other Non-Hussong Mfg. accessories used in conjunction with the installation of this appliance are not covered under this warranty.
9. Damage to plated surfaces or accessories, if applicable, caused by scratches, fingerprints, melted items or other external sources left on the surfaces from the use of cleaners is not covered under this warranty.
10. It is expressly agreed and understood that this warranty is Hussong Mfg.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Mfg. is free of liability for any damages caused by this appliance, as well as inconvenience expenses and materials. Incidental or consequential damages are not covered by this warranty. In some states, the exclusion of incidental or consequential damage may not apply. Hussong Mfg. shall not be held to implied warranties and this warranty shall replace all previous warranties.
11. This limited 20 year warranty is the only warranty supplied by Hussong Mfg. Any warranties extended to the purchaser by the dealer/distributor, whether expressed or implied, are hereby disclaimed and the purchaser's recourse is expressly limited to the warranties set forth herein.
12. Any part repaired or replaced during the limited warranty period will be warranted under the terms of the limited warranty for a period not to exceed the remaining term of the original limited warranty.
13. Any replacement part repaired after the warranty period will include a 90 day parts coverage
14. Hussong Mfg. may require the defective part to be returned using a pre-authorized RGA number or a photo of the defective component. Failure to provide either can result in a denied claim.
15. This warranty does not cover the appliances ability to heat a desired space, as there are many factors that can impact the heating performance in each home. Consideration should be implied to the fuel source, appliance's location, room size, home design, environmental conditions, insulation, and tightness of the home.
16. Hussong Mfg. reserves the right to make changes at any time, without notice, in design, material, specifications, and prices. Hussong Mfg. reserves the right to discontinue models and products.

