

# Installation Manual

## Installation and Fireplace Setup

Pour demander un exemplaire en français de ce Manuel du propriétaire, visitez [www.quadrafire.com/translations](http://www.quadrafire.com/translations).

**INSTALLER:** Leave this manual with party responsible for use and operation.

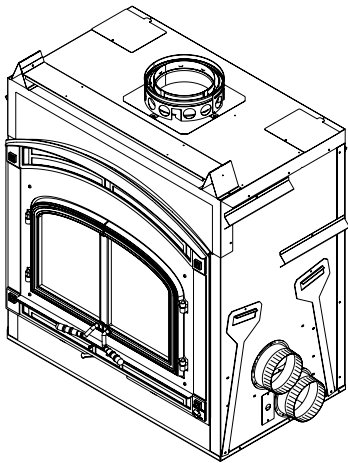
**OWNER:** Retain this manual for future reference.

# QUADRA-FIRE®

Model(s):

**7100FP-BK-B**

**7100FP-NL-B**



Tested and  
Listed by  Portland  
Oregon USA  
OMNI-Test Laboratories, Inc.

**EPA CERTIFIED WOODBURNING  
FIREPLACE**

**⚠ WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **DO NOT** overfire. Overfiring will void your warranty.
- 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 it is cooled
  - NEVER allow children to touch glass
  - Keep children away
  - CAREFULLY SUPERVISE children in same room as fireplace.
  - Alert children and adults to hazards of high temperatures.
- High temperatures may ignite clothing or other flammable materials.**
- Keep clothing, furniture, draperies and other flammable materials away.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.

**myhht  
FACTORY**

**NFI NATIONAL  
FIREPLACE  
INSTITUTE®**  
A CERTIFICATION AGENCY

### ⚠ WARNING



#### **Fire Risk.**

For use with solid wood fuel only.  
Other fuels may overfire and generate poisonous gases (i.e. carbon monoxide).

## Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Indicates practices which may cause damage to the fireplace or to property.

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## ATTENTION INSTALLER:

### Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjunction with, not instead of, the instructions contained in this installation manual.

|                            |             |                                   |  |
|----------------------------|-------------|-----------------------------------|--|
| <b>Customer:</b>           |             | <b>Date Installed:</b>            |  |
| <b>Lot/Address</b>         |             | <b>Location of Fireplace:</b>     |  |
|                            |             | <b>Installer:</b>                 |  |
| <b>Model (circle one):</b> | 7100FP-BK-B | <b>Dealer/Distributor Phone #</b> |  |
|                            | 7100FP-NL-B | <b>Serial #:</b>                  |  |

**WARNING! Risk of Fire or Explosion!** Failure to install fireplace according to these instructions can lead to a fire or explosion.

#### Fireplace Install

|  | YES                      | IF NO, WHY? |
|--|--------------------------|-------------|
| Verified that the chase is insulated and sealed.                         | <input type="checkbox"/> |             |
| Required non-combustible board is installed.                             | <input type="checkbox"/> |             |
| Verified clearances to combustibles.                                     | <input type="checkbox"/> |             |
| Fireplace is leveled and secured.  | <input type="checkbox"/> |             |
| Hearth extension size/height decided.                                    | <input type="checkbox"/> |             |
| Outside air kit installed.   | <input type="checkbox"/> |             |
| Optional Heat Zone has been installed by a qualified service technician. | <input type="checkbox"/> |             |

#### Chimney Section 5

|   |                          |  |
|---|--------------------------|--|
| Chimney configuration complies with diagrams.                         | <input type="checkbox"/> |  |
| Chimney installed, locked and secured in place with proper clearance. | <input type="checkbox"/> |  |
| Chimney air kit installed.  | <input type="checkbox"/> |  |
| Firestops installed.  | <input type="checkbox"/> |  |
| Attic insulation shields installed.                                   | <input type="checkbox"/> |  |
| Roof flashing installed and sealed.                                   | <input type="checkbox"/> |  |
| Terminations installed and sealed.                                    | <input type="checkbox"/> |  |

#### Electrical Section 4

|                                  |                          |  |
|----------------------------------|--------------------------|--|
| Switch wires properly installed. | <input type="checkbox"/> |  |
|----------------------------------|--------------------------|--|

#### Finishing Section 7

|  |                          |  |
|--|--------------------------|--|
| Combustible materials not installed in non-combustible areas.                    | <input type="checkbox"/> |  |
| Verified all clearances meet installation manual requirements.                   | <input type="checkbox"/> |  |
| Mantels and wall projections comply with installation manual requirements.       | <input type="checkbox"/> |  |
| Protective hearth strips and hearth extension installed per manual requirements. | <input type="checkbox"/> |  |

#### Fireplace Setup Section 8

|  |                          |  |
|--|--------------------------|--|
| All packaging and protective materials removed.  | <input type="checkbox"/> |  |
| Firebrick, baffle and ceramic blanket installed correctly.   | <input type="checkbox"/> |  |
| Facia and doors properly installed.  | <input type="checkbox"/> |  |
| Manual bag and all of its contents are removed from inside/under the fireplace and given to the party responsible for use and operation. | <input type="checkbox"/> |  |
| All packaging materials are removed from inside/under the fireplace.   | <input type="checkbox"/> |  |

#### **Hearth & Home Technologies recommends the following:**

- Photographing the installation and copying this checklist for your file.
- That this checklist remain visible at all times on the fireplace until the installation is complete.

**Comments:** Further description of the issues, who is responsible (Installer/Builder/Other Trades, etc.) and corrective action needed:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Comments communicated to party responsible \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_

(Builder/Gen. Contractor) (Installer) (Date)

# 1 Product Specific & Important Safety Information

## A. Appliance Certification

|                    |  |
|--------------------|--|
| <b>Model:</b>      | 7100FP   |
| <b>Laboratory:</b> | OMNI Test Laboratories, Inc.   |
| <b>Report No:</b>  | 061-S-41-2   |
| <b>Type:</b>       | Wood Fireplace   |
| <b>Standard:</b>   | UL127-2011 and ULC-S610-M87 (A1998) and (UM) 84-HUD, Manufactured Home Approved. |

The 7100FP meets the U.S. Environmental Protection Agency's crib wood emission limits for wood heaters sold after May 15, 2015.

## B. BTU & Efficiency Specifications

|   |                        |
|---|------------------------|
| EPA Certification #:  | 571 4-1-03             |
| EPA Certified Emissions:  | 3.1 grams per hour     |
| *LHV Tested Efficiency:   | 77.6 %                 |
| **HHV Tested Efficiency:  | 71.8%                  |
| ***EPA BTU Output:  | 12,100 to 58,800 / hr. |
| ****Peak BTU/Hour Output:   | 92,400                 |
| Vent Size:  | 8 inches               |
| Firebox Size:   | 3.4 cubic feet         |
| Recommended Log Length:   | 24 inches              |
| Fuel:   | Seasoned Cord Wood     |
| Chimney Size:   | 8 inches               |
| HHT:  | SL300 Series           |
| DuraVent:   | DuraPlus               |
| * * Weighted average LHV (Low Heating Value) efficiency using Douglas Fir dimensional lumber and data collected during EPA emission test. LHV assumes the moisture is already in a vapor state so there is no loss in energy to vaporize. |                        |
| ****Weighted average HHV (High Heating Value) efficiency using Douglas Fir dimensional lumber and data collected during EPA emission test. HHV includes the energy required to vaporize the water in the fuel.                            |                        |
| ***A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests, using Douglas Fir dimensional lumber.   |                        |
| ****A peak BTU out of the appliance calculated using the maximum first hour burn rate from the High EPA Test and the BTU content of cordwood (8600) times the efficiency.   |                        |

## C. Mobile Home Approved

This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided. The structural integrity of the mobile home floor, ceiling, and walls must be maintained. The appliance must be properly grounded to the frame of the mobile home and use only listed double-wall connector pipe.

## D. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

**NOTE:** This installation must conform with local codes. In the absence of local codes you must comply with the **UL127-2011, (UM) 84-HUD and NPFA211** in the U.S.A. and the **ULC S610-M87 (A1998) and CAN/CSA-B365 Installation Codes** in Canada.



## WARNING



### Fire Risk.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Do NOT Overfire - If appliance or chimney connector glows, you are overfiring.

Any such action that may cause a fire hazard.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.

For assistance or additional information, consult a qualified installer, service agency or your dealer.

**NOTE:** Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

Hearth & Home Technologies WILL NOT warranty appliances that exhibit evidence of over-firing. Evidence of over-firing includes, but is not limited to:

- Warped air tube
- Deteriorated refractory brick retainers
- Deteriorated baffle and other interior components

## E. Non-Combustible Materials

Material which will not ignite and burn, composed of any combination of the following:

- |            |           |
|------------|-----------|
| - Steel    | - Plaster |
| - Brick    | - Iron    |
| - Concrete | - Tile    |
| - Glass    | - Slate   |

Materials reported as passing **ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace of 750° C.**

## F. Combustible Materials

Material made of/or surfaced with any of the following materials:

- |                |                        |
|----------------|------------------------|
| - Wood         | - Compressed Paper     |
| - Plant Fibers | - Plastic              |
| - Plywood/OSB  | - Sheet Rock (drywall) |

Any material that can ignite and burn: flame proofed or not, plastered or un-plastered.

## G. Electrical Codes

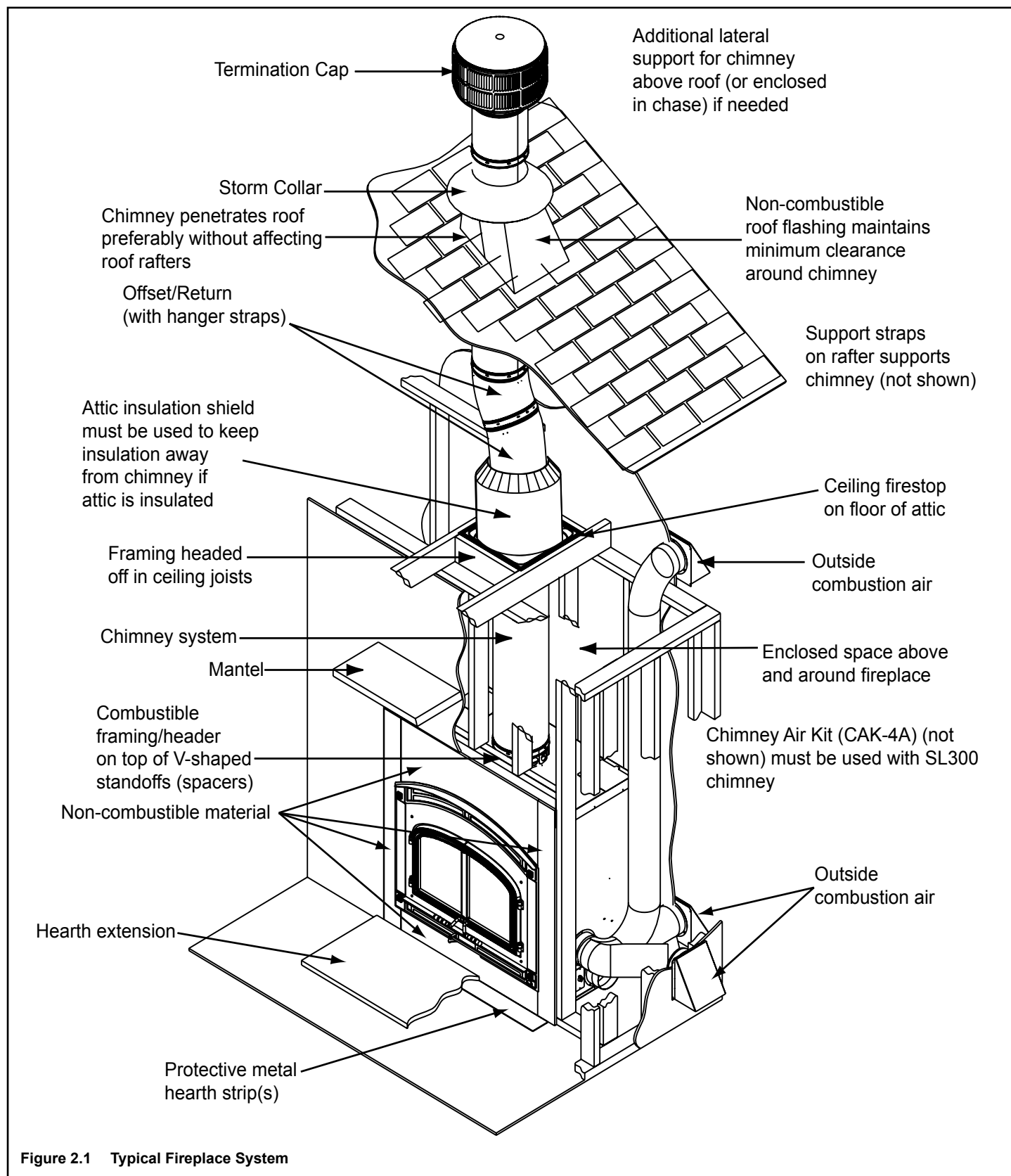
**NOTICE:** *This fireplace must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code CSA C22.1.*

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in damp locations.

**WARNING!** *Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage.*

## 2 Getting Started

### A. Typical Fireplace System



## B. Design and Installation Considerations

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

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

### 1. Selecting Fireplace Locations

This fireplace may be used as a room divider, installed along a wall, across a corner or used in an exterior chase. See Figure 2.2.

Locating the fireplace in a basement, near frequently opened doors, central heat outlets or returns, or other locations of considerable air movement can affect the performance.

Outside air must be used for combustion. The 7100FP comes equipped with an outside air inlet to feed combustion air from outside the home, along with an outside air termination cap; the metal duct is required but not supplied. Consideration should be given to these factors before deciding on a location.

**NOTICE:** In addition to these framing dimensions, also reference the following section:

- Clearances (Section 3).

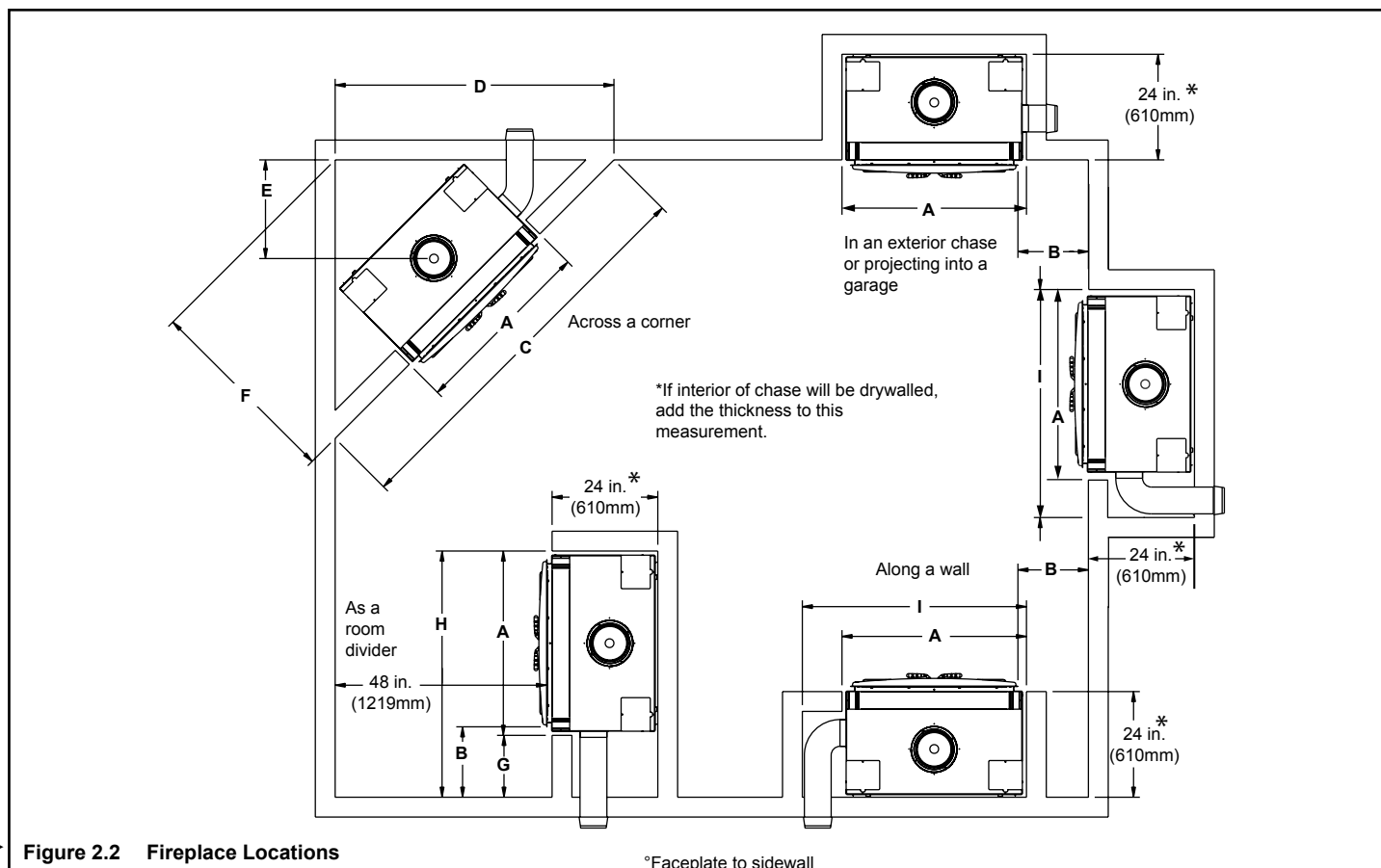
**NOTICE:**

- Illustrations and photos reflect typical installations and are **FOR DESIGN PURPOSES ONLY**.
- Illustrations/diagrams are not drawn to scale.
- Actual installation/appearance may vary due to individual design preference.
- Hearth & Home Technologies reserves the right to alter its products.

**NOTICE:**

A minimum 1/2 in. air clearance at the back and a minimum 1 in. air clearance to the sides of the fireplace assembly must be maintained.

Chimney sections at any level require a 2 in. minimum air space clearance between the framing and chimney sections.



► **Figure 2.2 Fireplace Locations**

| Model # 7100FP                  |     | A      | B°  | C      | D       | E       | F      | G       | H       | I      |
|---------------------------------|-----|--------|-----|--------|---------|---------|--------|---------|---------|--------|
| (Dimensions for finished walls) | in. | 42-1/2 | 16  | 89-1/2 | 63-5/16 | 22-7/16 | 44-3/4 | 14-1/16 | 56-9/16 | 54-1/2 |
|                                 | mm  | 1080   | 406 | 2273   | 1608    | 570     | 1137   | 357     | 1437    | 1384   |

## 2. Locating Fireplace & Chimney

Location of the fireplace and chimney will affect performance.

- Install within the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Locate termination cap away from trees, adjacent structures, uneven roof lines and other obstructions.
- Minimize the use of chimney offsets.
- Consider the fireplace location relative to floor and ceiling and attic joists.
- Take into consideration the termination requirements in Sections 5 and 6.
- Install the outside air kit with the intake facing prevailing winds during the heating season.
- Ensure adequate outdoor air for all combustion appliances and exhaust equipment.
- Ensure furnace and air conditioning return vents are not located in the immediate vicinity of the fireplace.
- Avoid installing the fireplace near doors, walkways or small isolated spaces.
- Recessed lighting should be a “sealed can” design.
- Attic hatches weather stripped or sealed.
- Attic mounted duct work and air handler joints and seams taped or sealed.

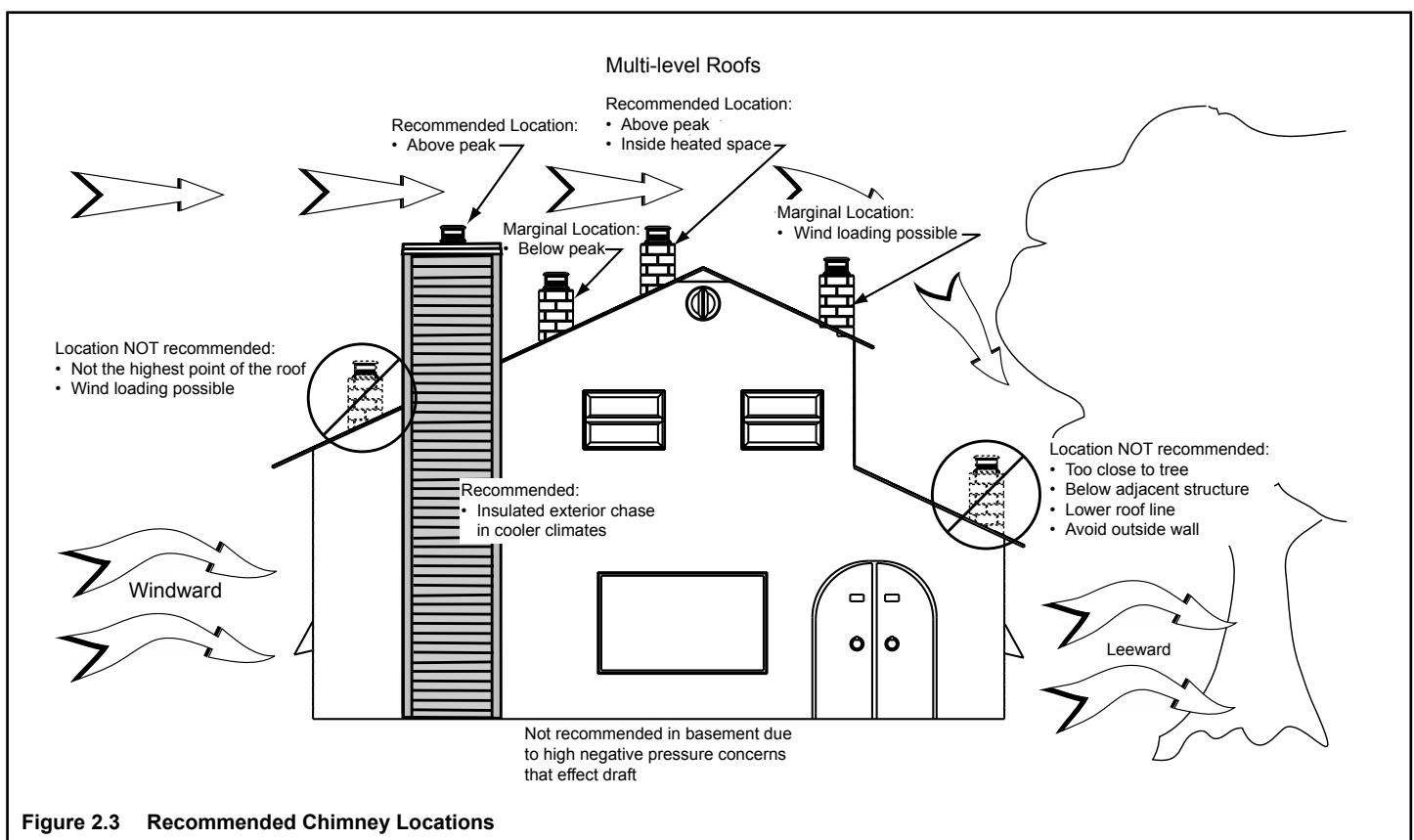


Figure 2.3 Recommended Chimney Locations



## C. Tools and Supplies Needed

Before beginning the installation be sure the following tools and building supplies are available:

|   |                         |
|---|-------------------------|
| Reciprocating saw                                 | Framing material        |
| Pliers  | Non-combustible sealant |
| Hammer  | Gloves                  |
| Phillips screwdriver                              | Framing square          |
| Flat blade screwdriver                            | Electric drill and bits |
| Plumb line  | Safety glasses          |
| Level   | Tape measure            |
| 1/2-3/4 in. length, #6 or #8 self-drilling screws |                         |
| Misc. screws and nails                            |                         |

## D. Inspect Fireplace and Components

***WARNING! Risk of Fire and/or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep fireplace dry.***

- Remove fireplace and components from packaging and inspect for damage.
- Vent system components and doors are shipped in separate packages.
- Report to your dealer any parts damaged in shipment.
- **Read all the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

## E. Fireplace System Requirements

The Quadra-Fire fireplace system requirements consist of the following:

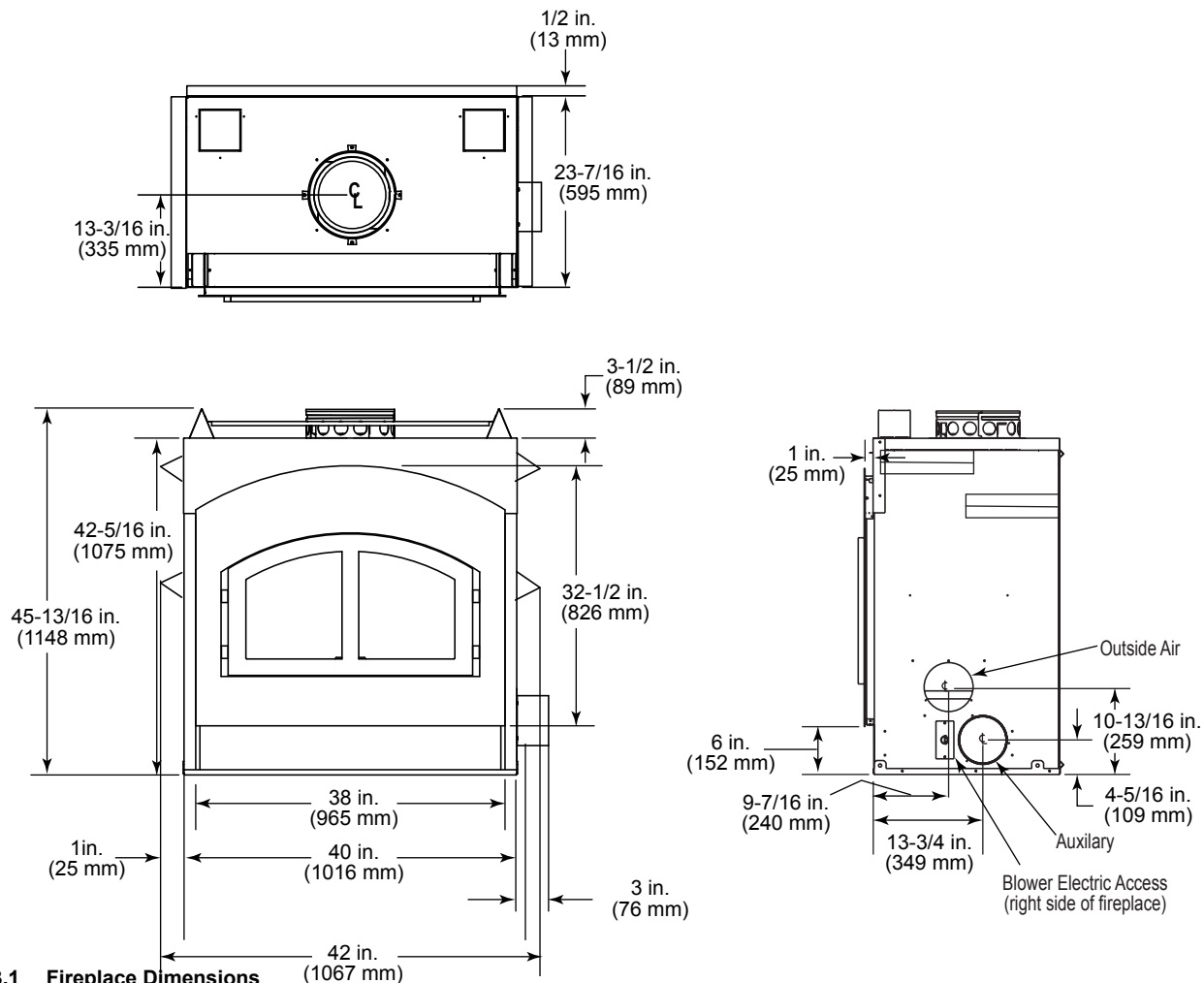
- Fireplace
  - Firebrick (included with fireplace)
  - Door (included with fireplace)
  - Non-combustible facing material (included with fireplace)
  - Hearth Extension
- Outside Air System (hood and collars included with fireplace)
- Fascia
- Chimney System
  - Chimney air kit (included with fireplace, required with SL300 series chimney)
  - Attic Insulation Shield (included with fireplace)
  - Chimney termination cap
- Non-combustible finish material

Optional components include:

- Firescreen
- Lintel Bar
- Heat Zone Kit

# 3 Framing and Clearances

## ► A. Fireplace Dimensions

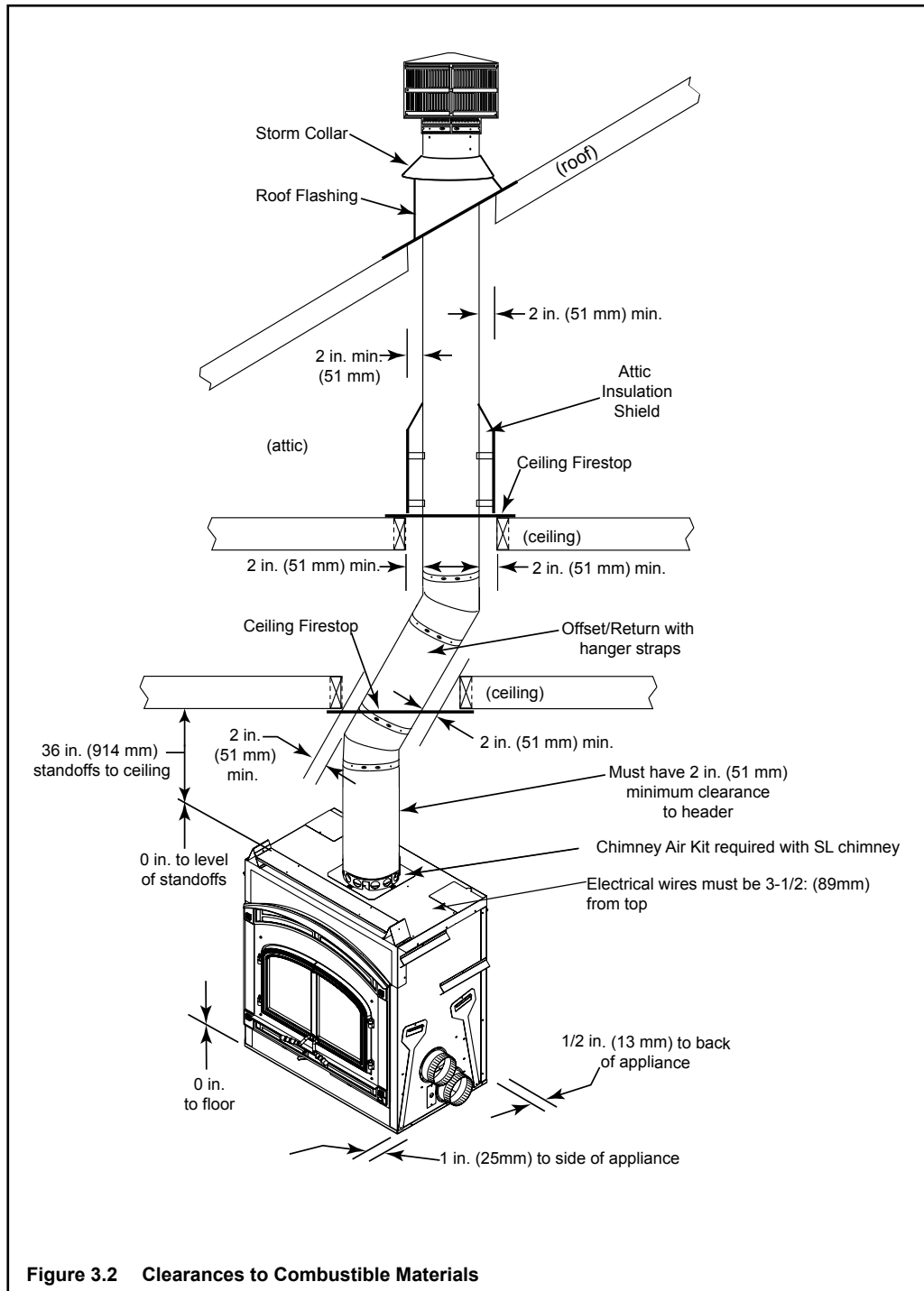


**Figure 3.1 Fireplace Dimensions**

## B. Clearances

### **WARNING! Risk of Fire!**

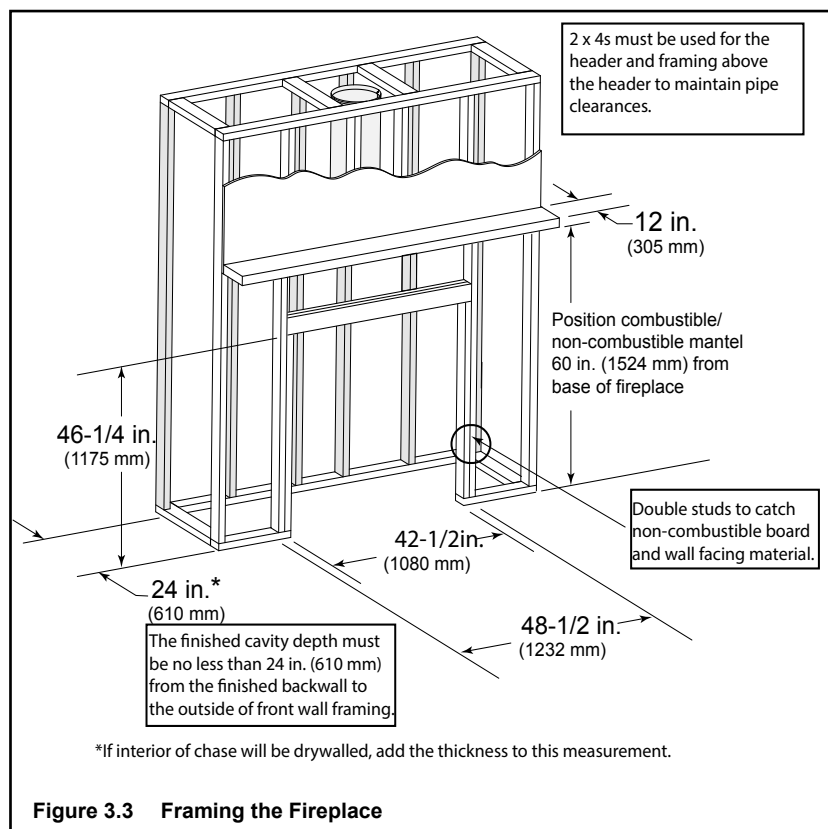
You must comply with all minimum air space clearances to combustibles as specified in Figure 3.2. **DO NOT** pack required air spaces with insulation or other materials. Framing or finishing material used on the front of, or in front of, the fireplace closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.). Failure to comply may cause fire.



**Figure 3.2 Clearances to Combustible Materials**

## 1. Minimum Clearances to Combustibles

| WITHIN ENCLOSURE AREA  |                     |
|--|---------------------|
| Fireplace to backwall  | 1 in. (25 mm)       |
| Fireplace to sidewall  | 1 in. (25 mm)       |
| Duct boots to framing  | 0 in. (0 mm)        |
| Top standoffs to header  | 0 in. (0 mm)        |
| Door opening to sidewall   | 22-7/8 in. (581 mm) |
| EXPOSED SURFACES   |                     |
| Faceplate to sidewall  | 16 in. (406 mm)     |
| Heat zone air grills to ceiling  | 12 in. (305 mm)     |
| MANTEL   |                     |
| Non-combustible mantel<br>(Non-combustible framing materials above the fireplace to ceiling) | 46 in. (1168 mm)    |
| Combustible mantel<br>(Combustible framing materials above the fireplace to ceiling)         | 60 in. (1524 mm)    |
| Maximum mantel depth   | 12 in. (305 mm)     |



## C. Construct the Chase

A chase is a vertical boxlike structure built to enclose the fireplace and/or its vent system. Vertical chimneys that run on the outside of a building must be installed inside a chase.

In cold climates, Hearth & Home Technologies recommends that the chase be well insulated using batt type insulation between the joists.

Construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Local building codes **MUST** be checked.

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner. All outer walls need to be insulated.

Building codes require false ceiling and ceiling firestops/attic shields at each floor of the chase or every 10 ft (3048 mm) of clear space to control spread of fire.

Walls, ceiling, base plate and cantilever floor at the first level of the chase should be insulated (see Figure 3.4.) Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, Hearth & Home Technologies recommends that the inside surfaces be drywalled and taped (or the use of an equivalent method) for maximum air tightness.

Holes and other openings should be caulked with high temperature caulk or stuffed with unfaced fiber glass insulation.

**WARNING! You must install false ceilings and ceiling firestops at each floor of the chase or every 10 ft (3.05 m) to control spread of fire.**

**WARNING! Risk of Fire! DO NOT seal area between fire stop opening and chimney pipe except where they enter the attic or leave the warm air envelope of the home (use 600° F sealant).**

- The chase is constructed using framing materials much the same as the walls in your home. A variety of siding materials may be used including brick, stone, veneer brick, or standard siding materials.
- In constructing the chase, several factors must be considered:
  - Maintain a 2 in. (51 mm) air space around the chimney.
  - The chase top must be constructed of non-combustible material.
  - In cold climates, a firestop spacer and attic insulation shield should be installed in an insulated false ceiling at the 8 ft. (2438 mm) level above the fireplace assembly. This reduces heat loss through the chase.
  - In cold climates, the walls of the chase should be insulated to the level of the false ceiling as shown in Figure 3.4. This will help reduce heat loss from the home around the fireplace.

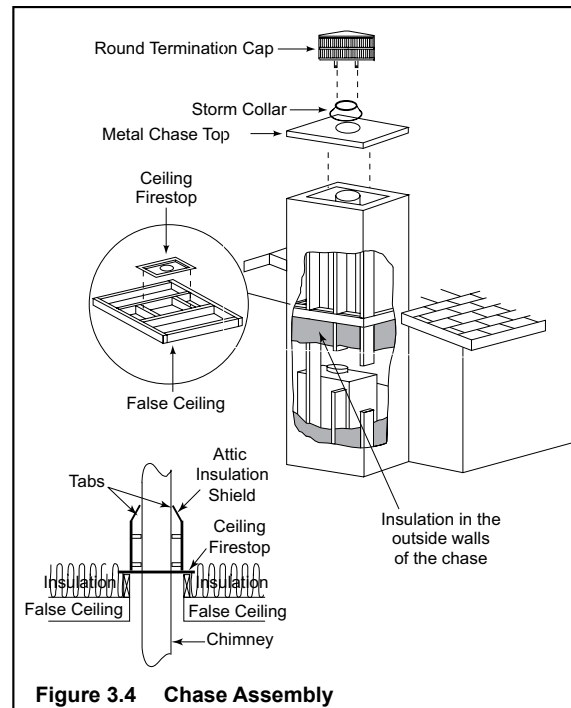


Figure 3.4 Chase Assembly

**WARNING! Risk of Fire! You must maintain a minimum 2 in. (51 mm) air space clearance to insulation and other materials surrounding the chimney system.**

- Insulation and other materials must be firmly secured to prevent accidental contact with chimney system.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to prevent contact between insulation or other materials and chimney system may cause overheating and fire.

Three examples of chase applications are shown in Figure 3.5.

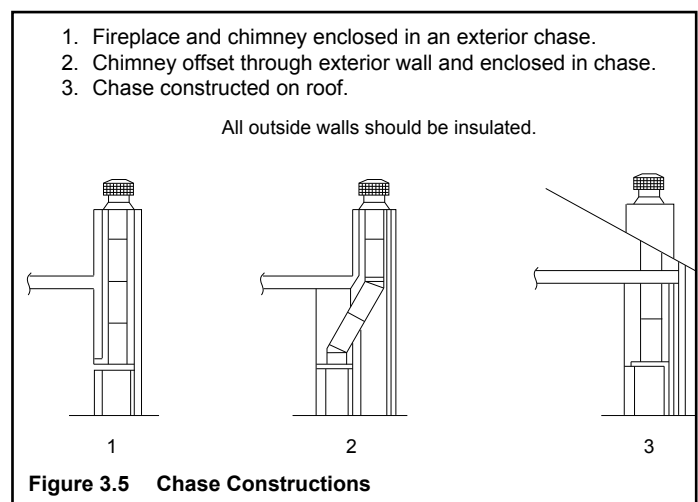


Figure 3.5 Chase Constructions

## D. Frame the Fireplace

**NOTICE:** Hearth extension design must be determined before installation of fireplace.

If the fireplace is placed on the floor the maximum height of a finished raised hearth is 5-3/4", if you want a higher raised hearth the fireplace must be placed on a platform.

**NOTICE: Wiring for fans must be done before framed enclosure is completed. If using a Heat Zone Kit, it also must be installed before enclosure is complete.**

The 7100FP Fireplace will fit a framed opening height of 46-1/4 in. (1174 mm) tall and 44 in. (1118 mm) wide. Figure

### Standoffs are attached to the fireplace.

The unit can be positioned with the standoffs touching combustible walls or framing but DO NOT pack insulation or other materials in the air space between the fireplace and wall.

**WARNING! Risk of Fire!** Comply with all minimum clearances specified.

- A minimum 1/2 in. (13 mm) air clearance must be maintained at the back and 1 in. (25 mm) to the sides of the fireplace assembly.
- Chimney sections at any level require a 2 in. (51 mm) minimum air space clearance between the framing and chimney section.

**WARNING! Risk of Fire!** You must comply with all minimum air space clearances to combustibles. **DO NOT** pack required air spaces with insulation or other materials.

3.3 shows a typical framing (using 2 x 4 lumber) of the fireplace, assuming combustible materials are used. All required clearances to combustibles around the fireplace must be adhered to. See Figure 3.2. Any framing across the top of the fireplace must be above the level of the top standoffs. (No recess above standoffs.)

The finished cavity depth must be no less than 24 in. (610 mm) from the finished backwall to the outside of front wall framing. Framing must extend straight up all the way to the ceiling.

**CAUTION! Risk of Cuts/Abrasions.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

## E. Secure and Level the Fireplace

This fireplace may be placed on either a combustible or noncombustible continuous flat surface. Follow the instructions for framing in Section 3. Slide the fireplace into position. Be sure to provide the minimum 1 in. air clearance at the sides and 1/2 in. at the back of the fireplace.

The fireplace should be positioned so the face of the non-combustible material on the fireplace will be flush with the face of the drywall on the walls. See Figure 3.6.

Level the fireplace and shim as necessary. Secure the fireplace (using the pallet mounting brackets located on either side of the fireplace) to the subfloor.

**WARNING! Risk of Fire!** Prevent contact with sagging, loose insulation.

- **DO NOT** install against vapor barriers or exposed insulation.
- Secure insulation and vapor barriers.
- Provide minimum air space clearances at the sides and back of the fireplace assembly as outlined in Section 3.

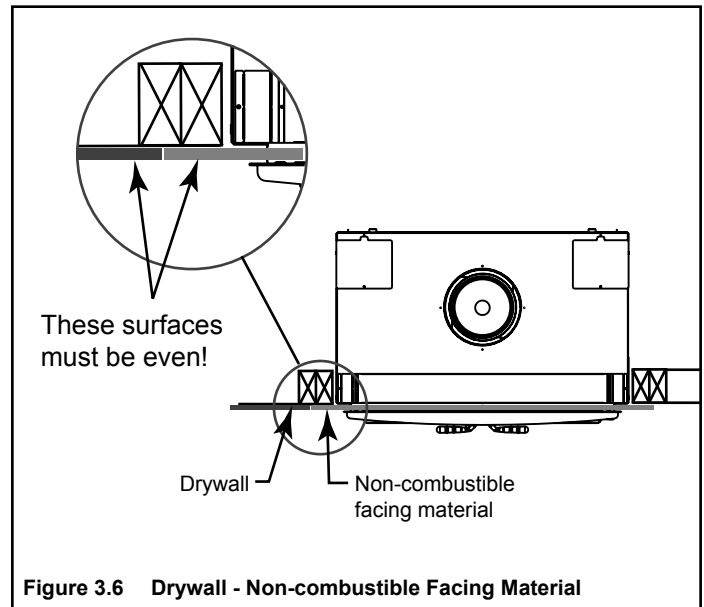


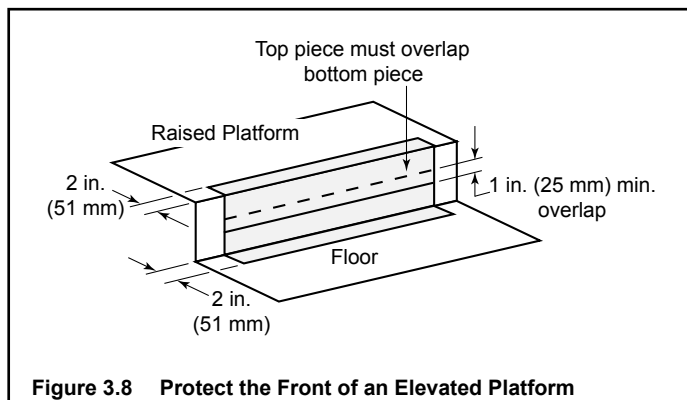
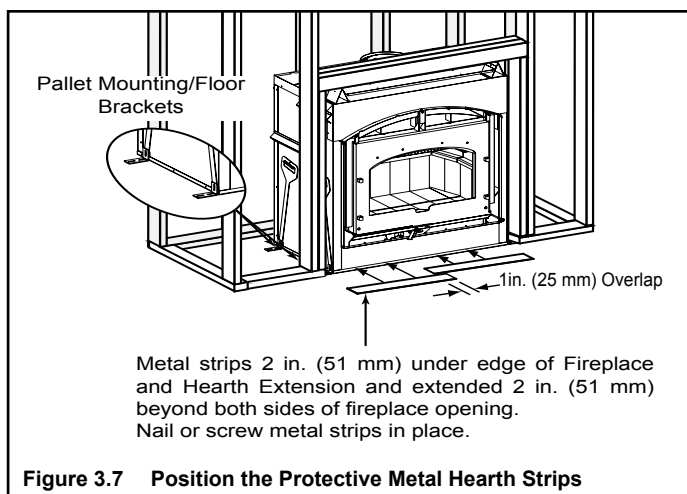
Figure 3.6 Drywall - Non-combustible Facing Material

## F. Protective Metal Hearth Strips

**WARNING! Risk of Fire!** Protective metal hearth strips **MUST** be installed on combustible surfaces. **DO NOT** cover metal strips with combustible materials. Sparks or embers may ignite flooring.

**WARNING! Risk of fire!** High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips **MUST** be installed.
- Hearth extensions **MUST** be installed exactly as specified.
- Locate the two protective metal hearth strips measuring approximately 26 in. x 4 in. (660 mm x 102 mm) included with this fireplace.
- Slide each metal strip 2 in. (51 mm) under front edge of fireplace.
- Overlap strips in the middle of fireplace opening by 1 in. (25 mm) minimum.
- Metal strips must extend beyond the front and sides of the fireplace opening by at least 2 in. (51 mm), Figure 3.7).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 3.8. See Section 6 for hearth extension instructions.



## G. Facing Material

**WARNING! Risk of Fire!**

Follow these instructions exactly.

Facing materials must be installed properly to prevent fire.

No materials may be substituted without authorization by Hearth & Home Technologies.

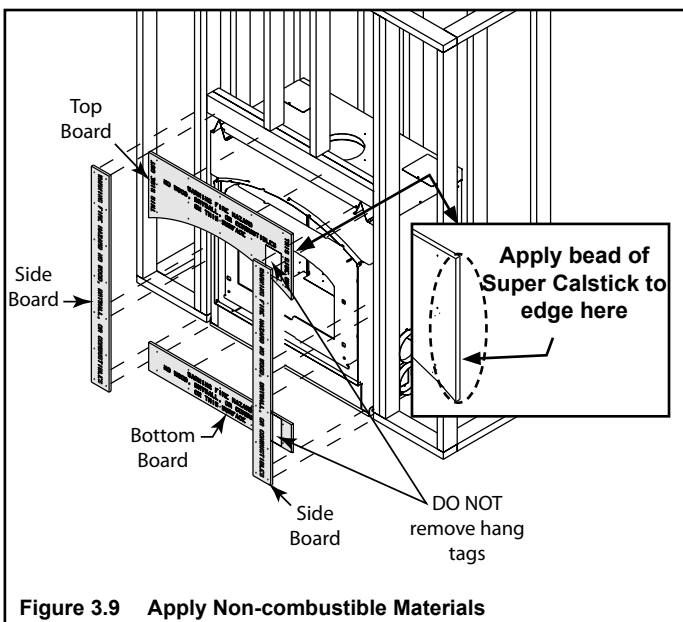
**TOOLS NEEDED:** Powered drill with #2 Phillips head bit; caulking gun.

Only non-combustible materials (supplied with fireplace) may be used to cover the metal fireplace front.

**NOTE:** All boards are pre-drilled for your convenience. Boards **MUST** be attached in the following order: bottom, top, and then the two sides, red-painted side out. The top and bottom board should each have a hang tag attached. Leave them attached for referral for the finishing operation.

- Attach the bottom board to the bottom of the outer fireplace can with enclosed screws, ensuring the board is centered. **DO NOT remove hang tags.**
- Center and attach the top board to the outer can and framing members. **DO NOT remove hang tags.**
- Using the Super Calstick, run a light bead (1/8 in. minimum) between the metal surface of the fireplace and the butt edges of the top board. See Figure 3.9.
- Ensuring the top of the side pieces and the top board align, attach the side pieces to the outer can and framing members.

**NOTICE:** 1/8 in. of the facing material may be visible after finishing materials are applied. This 1/8 in. must be painted or the red will show.



## H. Outside Air Kit

An outside air kit must be used for combustion. Hearth & Home Technologies recommends you utilize the shortest duct run to optimize the performance of the outside air kit. The outside air inlet hood should be positioned in a manner that will not allow snow, leaves, etc. to block the inlet. In some installations the air duct may need to be run vertically. In such an installation, a 3 ft (914 mm) height difference must be maintained from the top of the uppermost chimney section to the outside air inlet hood.

Refer to Figures 3.10 and 3.11 when placing the outside air inlet hood.

The outside air kit is installed on the right hand side of the fireplace. See Figure 3.12 for handle location/operation.

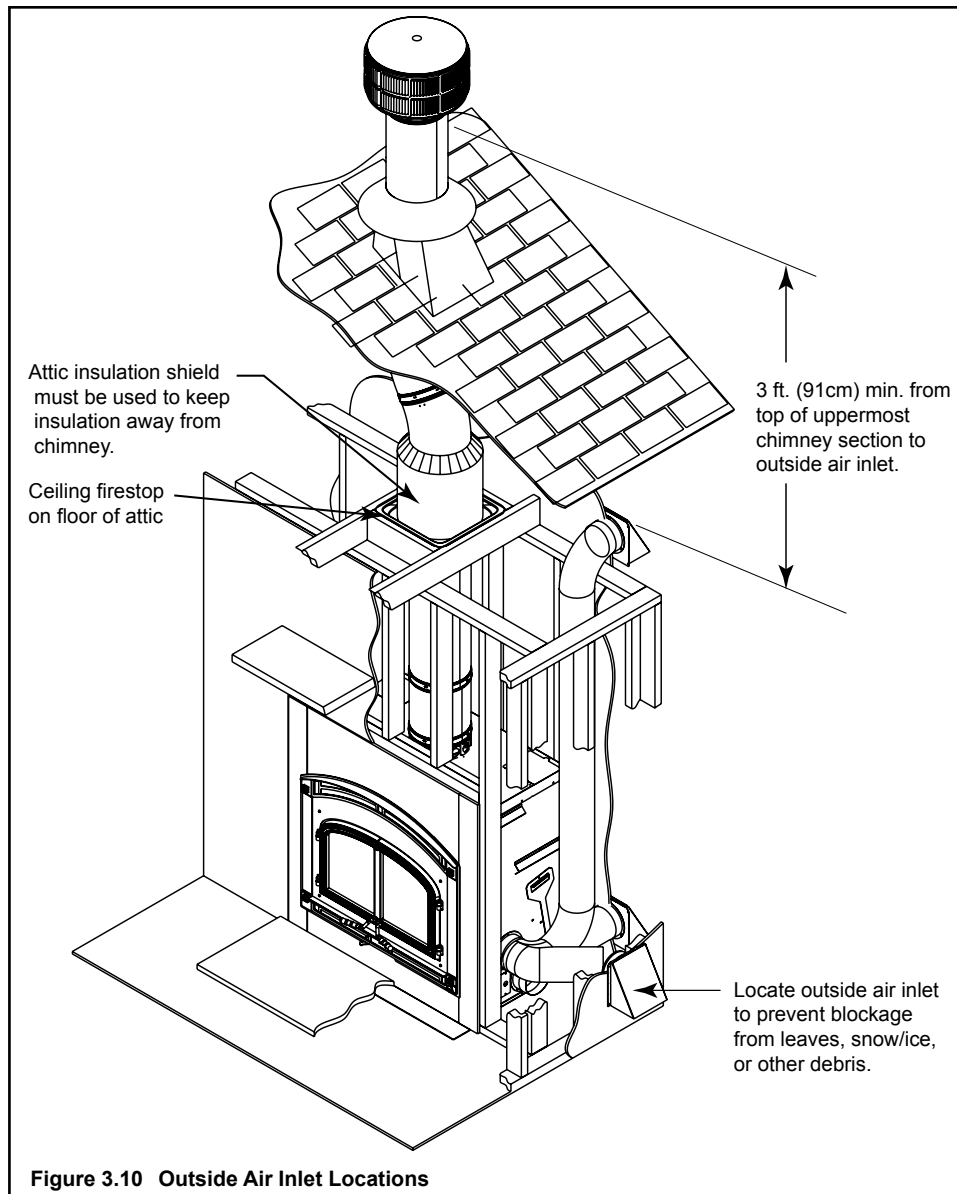
- Cut a 6-1/2 in. (165 mm) hole in outside wall to accommodate air piping.
- Use 6 in. (152 mm) metal flex or rigid piping (not supplied) to directly connect outside air to fireplace intake. Insulate the pipe to prevent frost condensation.
- Insulating the pipe isn't required but will help prevent frost condensation.
- Use the supplied outside air inlet hood.
- Seal between the wall and the pipe with silicone to prevent moisture penetration and air leaks.
- Seal between the outside air inlet hood and the house with silicone to prevent air infiltration.

**CAUTION! Risk of Fire or Asphyxiation! DO NOT** draw outside combustion air from wall, floor or ceiling cavity, or enclosed spaces such as an attic or garage.

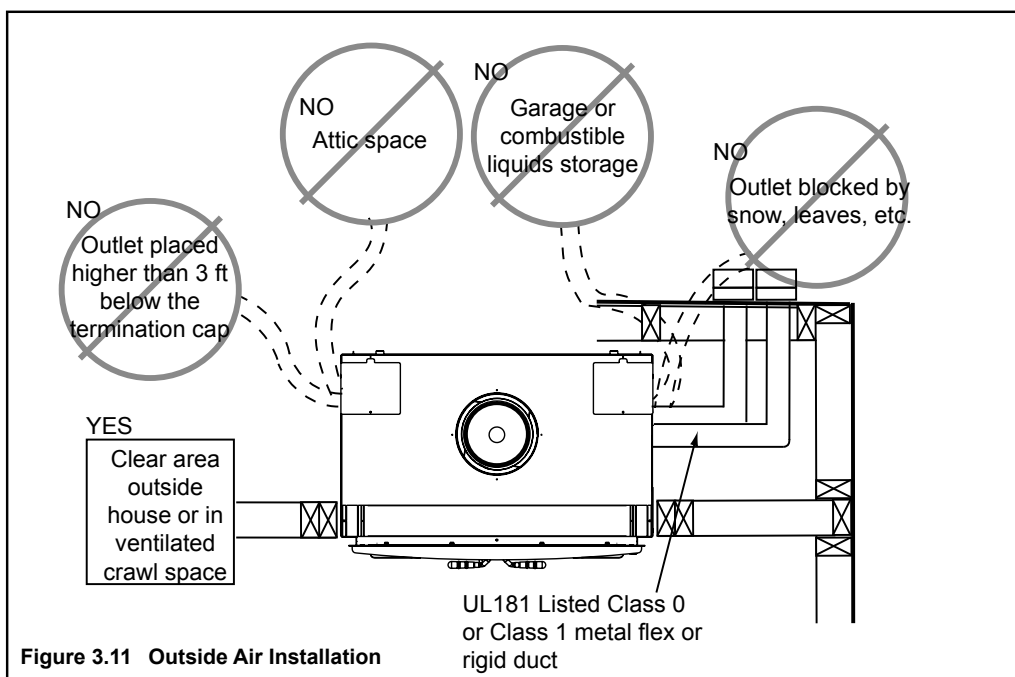
- **DO NOT** place outside air inlet hood close to exhaust vents or chimneys. Fumes or odor could be drawn into the room through the fireplace.
- Locate outside air inlet hood to prevent blockage from leaves, snow/ice, or other debris. Blockages could cause combustion air starvation.

**CAUTION! Risk of Cuts/Abrasions.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.





**Figure 3.10 Outside Air Inlet Locations**



**Figure 3.11 Outside Air Installation**

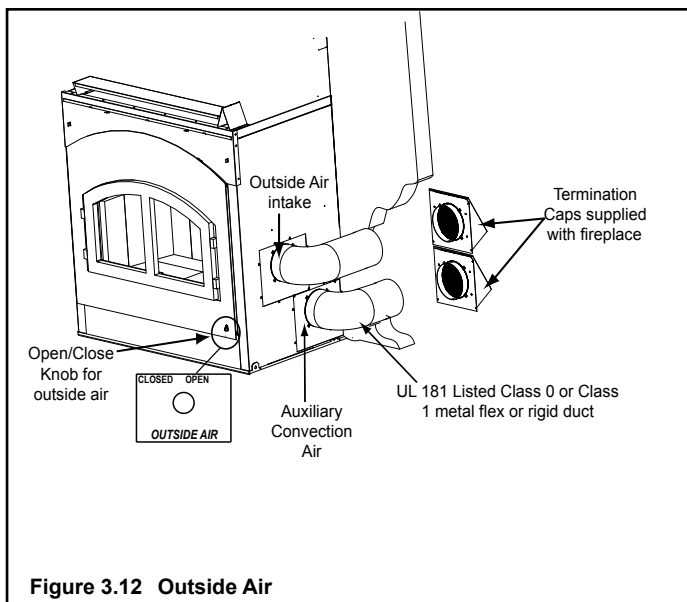


Figure 3.12 Outside Air

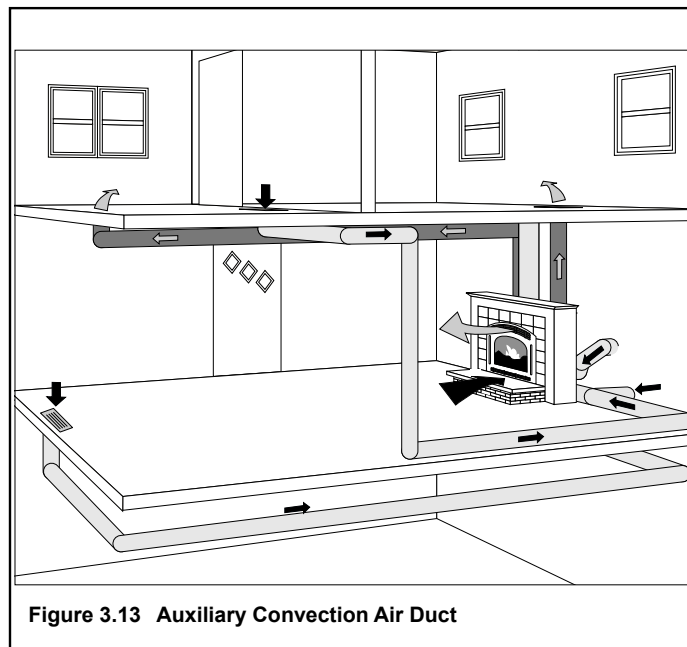


Figure 3.13 Auxiliary Convection Air Duct

## I. Auxiliary Convection Air System

**Note:** Both the outside air and auxiliary air kits are installed on the right hand side of the fireplace.

The auxiliary convection air system allows the option at the time of installation of the fireplace, to run a 6 inch (152 mm) diameter duct to the outside of the home, and bring outside air over the fans where it is heated and then distributed into the room. This produces a positive pressure inside the home.

Alternatively, a 6 inch (152 mm) duct can be run to another location in the home and used as a cold air return within the home and distributed into the room where the fireplace is located. See Figure 3.13.

If no ducting is installed, the fans will pull air from the room and re-circulate heated air back into the room.

### NOTICE:

**If you live in an area with very cold winter months, you will want to use room air as opposed to bringing in extremely cold air from outside of the home. This will eliminate creating a draft of cold outside air infiltrating your home. Definitely keep the lever to the LEFT when not using the fireplace if the duct has been installed.**

### Auxiliary Convection Air Lever

The auxiliary convection air lever is locked from the factory. If you are going to use this function for air movement you must remove the lock.

After removing the fascia, remove the one screw and plate to allow the handle to be moved in the full motion right to left. See Figure 3.14.

Discard the plate and screw. Replace fascia.

The auxiliary convection lever is located underneath the front lower panel as shown in Figure 3.14.

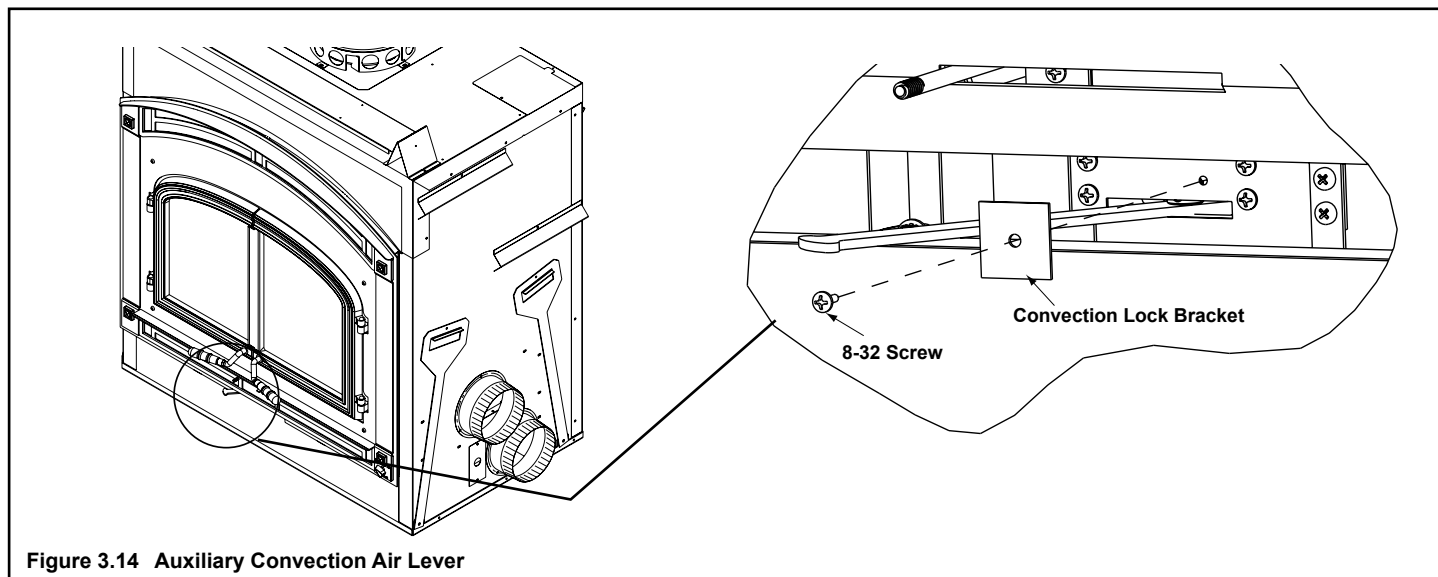


Figure 3.14 Auxiliary Convection Air Lever

## J. Heat Zone Kit (Optional)

The Heat-Zone accessory kit conveys warm air from the fireplace through air duct(s) to remote locations in the same room or other rooms of the building. You may install 1 or 2 Heat-Zone kits on the fireplace. Installation of this kit **MUST** be performed by a qualified service technician. If any parts are missing or damaged, contact your local dealer before starting installation. DO NOT install a damaged kit.

This kit is tested and safe when installed in accordance with this installation manual. It is your responsibility to read all instructions before starting installation and to follow these instructions carefully during installations.

The Heat-Zone® Wood kit is carefully engineered and must be installed only as specified. If you modify it or any of its components you will void the warranty and you may possibly cause a fire hazard. Installation must be done according to applicable local, state, provincial and/or national codes.

Plan the location of the fireplace and warm air duct run(s).

## DUCT RUN REQUIREMENTS

MAXIMUM Duct Run = 40-ft. (12 m)

MINIMUM Duct Run = 36 in. (914 mm)

## DUCTING MATERIAL

6 in. (152 mm) B-Vent Only

DO NOT duct into existing furnace plenum

## MINIMUM CLEARANCE TO COMBUSTIBLES

1 in. (25 mm) from the B-Vent

1/2 in. (13 mm) from top & bottom of outlet box

0 in. (0 mm) from the sides of outlet box

12 in. (305 mm) from wall register to ceiling

Refer to Figure 3.15.

**CAUTION!** ALL wiring should be done by a qualified electrician and shall be in compliance with local codes and with the National Electric Code NFPA/NEC No. 70-current. CSC22.1 Canadian Electric Code.

## Possible Air Duct Runs / Locations

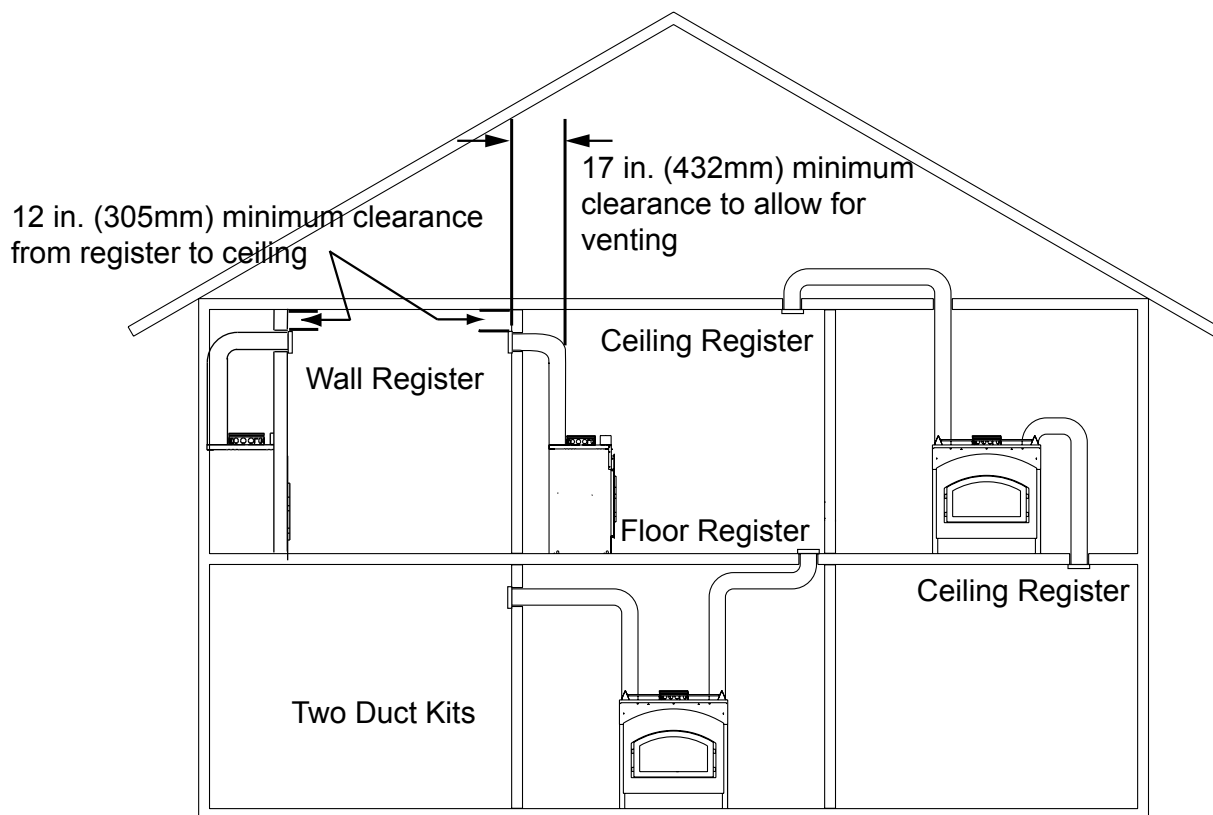


Figure 3.15 Minimum Clearances to Combustibles

## Installation

- Remove the knockout or cover plate from the top of the fireplace and discard it. See Figure 3.16.
- Cut a 3 in. (76 mm) hole in the insulation board as per the dimensions shown in Figure 3.16.

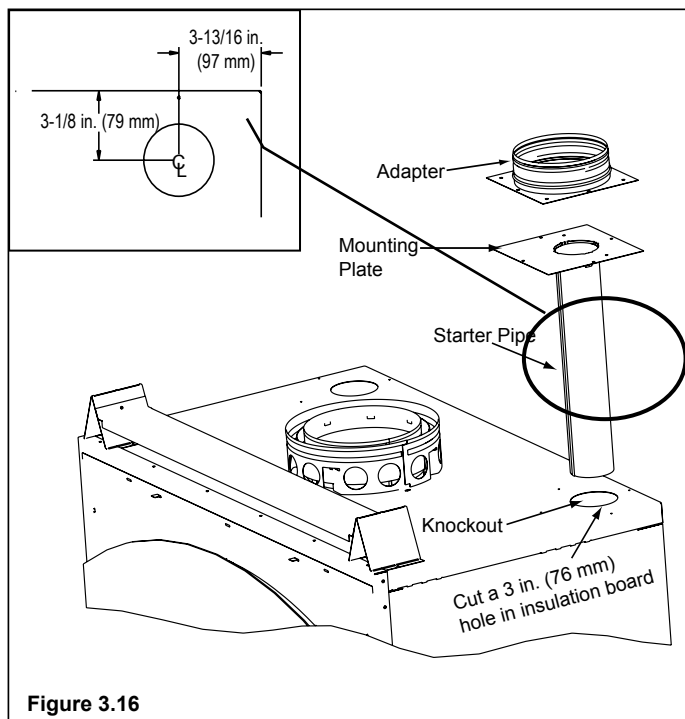


Figure 3.16

- Determine the necessary length of starter pipe from the Table 3.1 and cut as required.

Table 3.1

| Run Length  | Cut Pipe        |
|---|-----------------|
| 20 - 40 ft (6-12 m)   | 2 in. (51 mm)*  |
| *A minimum of 2 in. (51 mm) pipe must be used to cover the raw insulation to prevent it from blowing out through the return air grille. |                 |
| 10 - 20 ft (3 - 6 m)  | 8 in. (203 mm)  |
| 3 - 10 ft (1 - 3 m)   | No cut needed** |
| **Use full 16 in. (406 mm) as supplied  |                 |

**NOTE:** It is important the pipe length be adhered to or it will affect the performance of your fireplace.

- On the mounting plate, hand bend the tabs downward. Slide the tabs over the outside of the starter pipe. Secure with four sheet metal screws included in fasteners package. Figure 3.17.

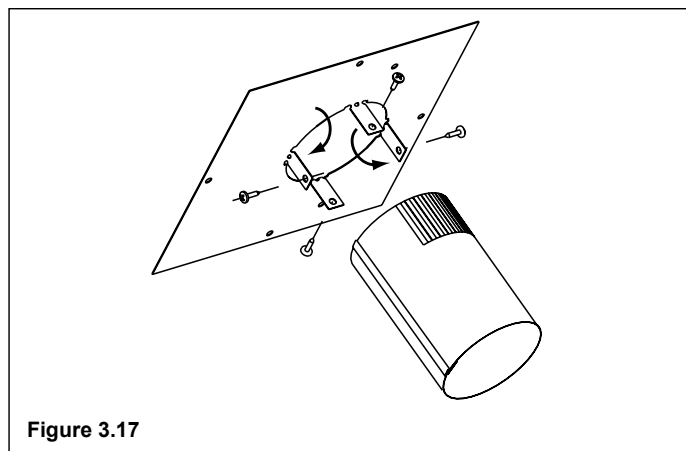


Figure 3.17

- Slide the starter pipe into the fireplace, matching the holes in the plate to the holes in the fireplace.
- Place the adapter on the mounting plate lining up holes. Using four sheet metal screws included in the kit, secure the adapter and mounting plate into fireplace. After securing to the fireplace, tape down the adapter edges to the top of the fireplace with aluminum tape to prevent leakage.
- Determine the location for the air register and fan housing assembly. Cut a 7-5/8 in. x 13-5/8 in. (143 mm x 346 mm) hole between framing members (wall studs or floor joists). The brackets can be rotated 180° and mounted to the back side of the 2 x 4 if necessary. See Figure 3.18.

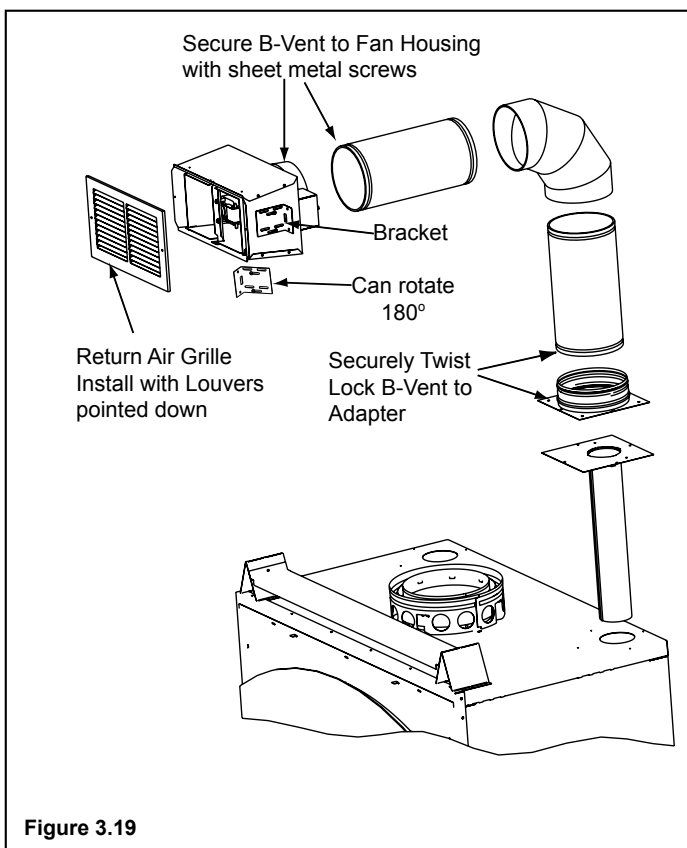
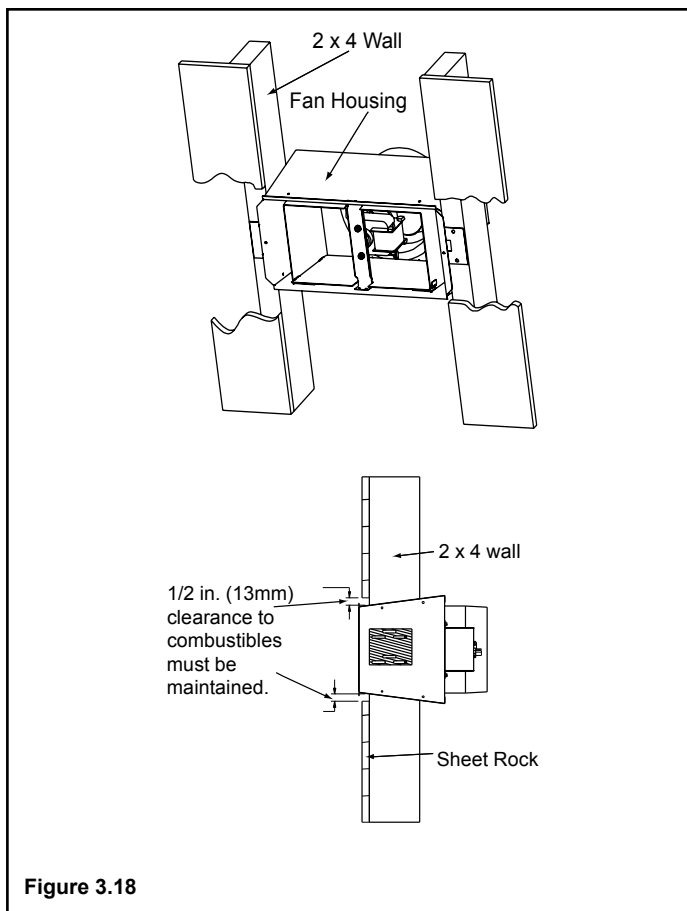
**NOTICE:** The fan and electrical connections must be accessible for servicing per local code requirements.

**NOTICE:** If the fan housing is installed in a 2 x 4 wall, the front of the housing will protrude approximately 1/4 in. (6 mm) from the finished wall.

- Attach enough 6 in. (152 mm) B-Vent as required for your installation to the fan housing. **A maximum of (4) 90° elbows is recommended.** Securely twist lock the B-Vent to the adapter.  
Also screw the B-Vent to the outlet box on the fan housing. See Figure 3.19. Support duct at intervals of no greater than 4 ft (1 m) as required by local code.

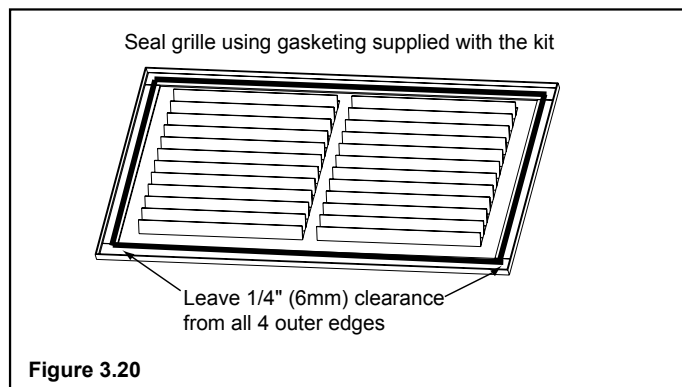
**WARNING! Risk of Fire!** Comply with all minimum clearances specified.

- A minimum 1 in. (13 mm) air clearance must be maintained at the back and 1 in. (25mm) to the sides of the fireplace assembly.



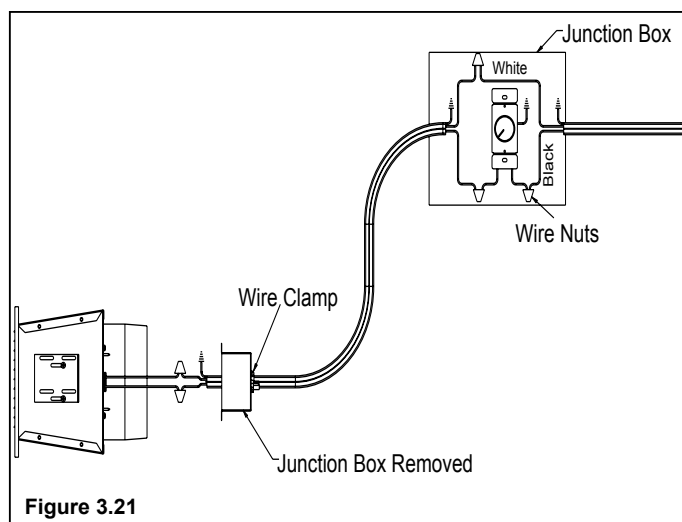
**NOTICE:** Secure the duct so that clearance to the fire-place outer wrap is maintained. Tape all seams with aluminum tape 1-1/4 in. (32 mm) minimum width or as specified by local codes.

- Seal all the way around the inside of the return air grille to prevent hot air being drawn back into the venting system using gasketing supplied with the kit. Leave 1/4 in. (6 mm) clearance from all four outer edges. Trim excess gasketing. See Figure 3.20.



- Install the variable speed wall rheostat (with setting on "OFF") in a convenient location. This switch will control the Heat-Zone fan operation.
- Remove the junction box. Wire 110 VAC service TO the wall rheostat and FROM the wall rheostat to the fan junction box. Use wire nuts to secure the 110 VAC service wires to the hot (black) and neutral (white) fan wires and screw the 110 VAC ground wire to the junction box. See Figure 3.21.
- Secure the return air grille to the fan housing making sure it is flush. The grille must be installed with the louvers pointing down.

**NOTICE: DO NOT USE ADJUSTABLE REGISTERS.**



## 4 Electrical Wiring

**NOTICE:** The manual override switch, rheostat speed control and cover plate are supplied. You will need to supply: 14-3 wire with ground; 14-2 wire with ground; standard wall mount junction box; wire nuts.

- Remove junction box cover plate on the bottom right side of the fireplace.
- Thread the 14-3 with ground wire through the opening with the strain relief on the cover plate.
- Match colors to wire harness, (red to red, white to white, etc.) and secure with wire nuts.

**NOTICE:** Wiring for fans must be done before framed enclosure is completed. If using a Heat Zone kit, it also must be installed before enclosure is complete.

**WARNING! Risk of Fire! DO NOT** apply combustible finishing materials over any part of the front of this fireplace.

- The metal fireplace face may only be covered with noncombustible materials such as ceramic tile, brick, or stone.
- Do not cover or block any cooling air slots.

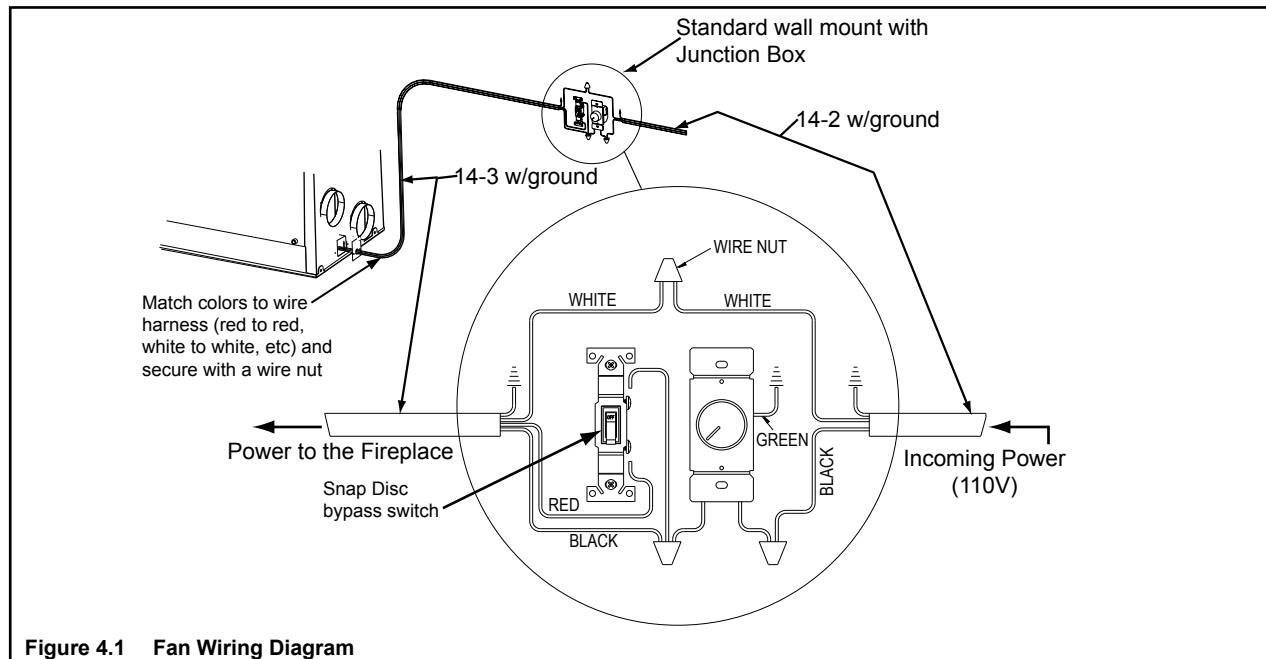


Figure 4.1 Fan Wiring Diagram

# 5 Chimney and Termination Requirements

## A. Chimney Requirements

Vertical distances are measured from the base of the fireplace as shown in Figure 5.1.

**Table 5.1 Chimney Requirements**

|  |         |         |
|--|---------|---------|
| Minimum overall straight height                                  | 13 ft   | 3.96 m  |
| Minimum height with single offset/return                         | 14.5 ft | 4.42 m  |
| Double offset/return minimum height                              | 20 ft   | 6.1 m   |
| Maximum height   | 50 ft   | 15.24 m |
| Maximum chimney length between an offset and return              | 20 ft   | 6.1 m   |
| Maximum distance between chimney stabilizers                     | 35 ft   | 10.67 m |
| Maximum unsupported chimney length between the offset and return | 6 ft    | 1.83 m  |
| Maximum unsupported chimney height above the fireplace           | 35 ft   | 10.67 m |
| Maximum unsupported chimney above roof                           | 6 ft    | 1.83 m  |

**NOTICE:** A maximum of two pairs of offsets and returns may be used.

**WARNING! Risk of Fire!** You must maintain 2 in. (51 mm) air space clearance to insulation and other combustible materials around the chimney system. Failure to do so may cause overheating and fire.

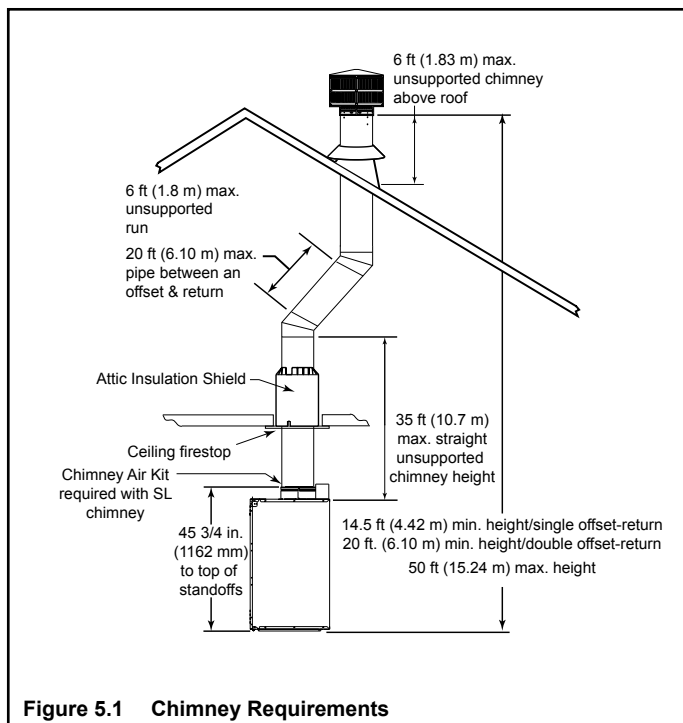
**NOTICE:** You must provide support for the pipe during construction and check to be sure inadvertent loading has not dislodged the chimney section from the fireplace or at any chimney joint.

**Table 5.2 Chimney Component Dimensions**

| HEIGHT OF CHIMNEY COMPONENTS |       | in.    | mm   |
|------------------------------|-------|--------|------|
| <b>Chimney Stabilizer</b>    |       |        |      |
|                              | SL3   | 4-3/4  | 121  |
| <b>Offsets/Returns</b>       |       |        |      |
|                              | SL315 | 13-3/8 | 340  |
|                              | SL330 | 15-1/2 | 394  |
| <b>Chimney Sections*</b>     |       |        |      |
|                              | SL306 | 4-3/4  | 121  |
|                              | SL312 | 10-3/4 | 273  |
|                              | SL318 | 16-3/4 | 425  |
|                              | SL324 | 22-3/4 | 578  |
|                              | SL336 | 34-3/4 | 883  |
|                              | SL348 | 46-3/4 | 1187 |

\* Dimensions reflect effective height.

**Note:** 8 in. DuraPlus can also be used.



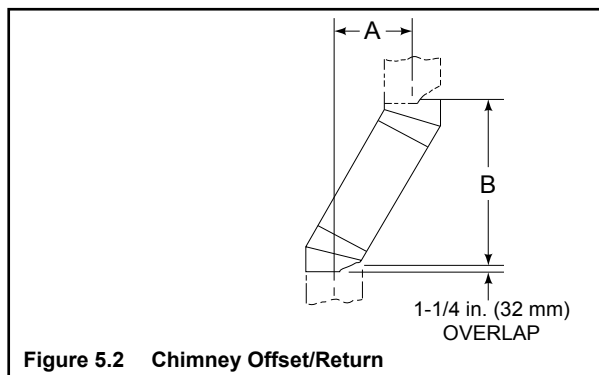
**Figure 5.1 Chimney Requirements**

## B. Offsets/Returns

- Use an offset/return to bypass overhead obstructions.
- An offset and return can be used as a single entity or separated by chimney section(s).

**WARNING! Risk of Fire! DO NOT** use offset/returns greater than 30°. Chimney draft will be restricted and could cause overheating and fire. Secure offsets with screws ( not to exceed 1/2" / 13 mm in length) Secure returns with strapping. Straight chimney sections may be secured with screws. Keep chimney sections from separating or twisting.

- Measure the shift needed to avoid the overhead obstruction. Refer to dimension A in Figure 5.2.
- Find the appropriate A dimension listed in Table 5.3. The B dimension coinciding with the A dimension measurement in Table 5.3 represents the required vertical clearance needed to complete the offset/return.
- Read across the chart to find the number of chimney sections/model numbers needed between the offset and return.



### Example:

Your "A" dimension from Figure 5.2 is 14-1/2 in. (368 mm). Using Table 5.3 the dimension closest to, but not less than 14-1/2 in. (368 mm) is 14-1/2 in. (368 mm) using a 30° offset/return.

You determine from the table that you need 34-1/8 in. (867 mm) (Dimension "B") between the offset and return.

The chimney component that best fits your application is one SL324.

**Table 5.3 Offset Dimensions**

| 15-degree |     |         |      | 30-degree |      |        |      | SL306 | SL312 | SL318 | SL324 | SL336 | SL348 |
|-----------|-----|---------|------|-----------|------|--------|------|-------|-------|-------|-------|-------|-------|
| A         |     | B       |      | A         |      | B      |      |       |       |       |       |       |       |
| in.       | mm  | in.     | mm   | in.       | mm   | in.    | mm   |       |       |       |       |       |       |
| 1 5/8     | 41  | 13 3/8  | 340  | 3 5/8     | 92   | 15 1/2 | 394  | -     | -     | -     | -     | -     | -     |
| 2 7/8     | 73  | 17 3/4  | 451  | 5 1/2     | 140  | 18 5/8 | 473  | 1     | -     | -     | -     | -     | -     |
| 4 1/8     | 102 | 22 3/8  | 568  | 7 1/4     | 184  | 21 3/4 | 552  | 2     | -     | -     | -     | -     | -     |
| 4 1/2     | 114 | 23 5/8  | 600  | 8 1/2     | 216  | 23 3/4 | 603  | -     | 1     | -     | -     | -     | -     |
| 5 3/4     | 146 | 28 1/4  | 718  | 10 1/4    | 260  | 27     | 686  | 1     | 1     | -     | -     | -     | -     |
| 6         | 152 | 29 3/8  | 746  | 11 1/2    | 292  | 29     | 737  | -     | -     | 1     | -     | -     | -     |
| 7 1/4     | 184 | 34      | 864  | 13 1/4    | 337  | 32 1/8 | 816  | -     | 2     | -     | -     | -     | -     |
| 7 3/4     | 197 | 36 1/8  | 918  | 14 1/2    | 368  | 34 1/8 | 867  | -     | -     | -     | 1     | -     | -     |
| 8 3/4     | 222 | 39 3/4  | 1010 | 16 1/4    | 413  | 37 3/8 | 949  | 1     | -     | -     | 1     | -     | -     |
| 10 3/8    | 264 | 45 5/8  | 1159 | 19 1/4    | 489  | 42 1/2 | 1080 | -     | -     | 2     | -     | -     | -     |
| 10 5/8    | 270 | 46 3/4  | 1187 | 20 1/2    | 521  | 44 5/8 | 1133 | -     | -     | -     | -     | 1     | -     |
| 11 7/8    | 302 | 51 3/8  | 1305 | 22 1/4    | 565  | 47 3/4 | 1213 | 1     | -     | -     | -     | 1     | -     |
| 13 1/2    | 243 | 57 1/4  | 1454 | 25 1/4    | 641  | 52 7/8 | 1343 | -     | -     | -     | 2     | -     | -     |
| 13 3/4    | 349 | 58 3/8  | 1483 | 26 1/2    | 673  | 55     | 1397 | -     | -     | -     | -     | -     | 1     |
| 15        | 381 | 63      | 1600 | 28 1/4    | 718  | 58 1/8 | 1476 | 1     | -     | -     | -     | -     | 1     |
| 16 1/2    | 419 | 68 3/4  | 1746 | 31 1/4    | 794  | 63 1/4 | 1607 | -     | 1     | -     | -     | -     | 1     |
| 18        | 457 | 74 5/8  | 1895 | 34 1/4    | 870  | 68 1/2 | 1740 | -     | -     | 1     | -     | -     | 1     |
| 19 5/8    | 498 | 80 3/8  | 2042 | 37 1/4    | 946  | 73 3/4 | 1873 | -     | -     | -     | 1     | -     | 1     |
| 20 5/8    | 524 | 84 1/8  | 2137 | 39 1/8    | 994  | 76 7/8 | 1953 | 1     | -     | -     | 1     | -     | 1     |
| 22 3/4    | 578 | 91 7/8  | 2334 | 43 1/4    | 1099 | 84 1/8 | 2137 | -     | -     | -     | -     | 1     | 1     |
| 24        | 610 | 96 1/2  | 2451 | 45 1/8    | 1146 | 87 1/4 | 2216 | 1     | -     | -     | -     | 1     | 1     |
| 25 7/8    | 657 | 103 1/2 | 2629 | 49 1/4    | 1251 | 94 1/2 | 2400 | -     | -     | -     | -     | -     | 2     |

Proper assembly of air-cooled chimney parts result in an overlap at chimney joints of 1-1/4 in. (32 mm). Effective length is built into this chart.



## C. Termination Requirements

- Install a cap approved and listed for this fireplace system.
- Locate cap where it will not become plugged by snow or other materials.
- Locate cap away from trees or other structures.
- The bottom of the termination cap must be at least 3 ft (.91 m) above the roof AND at least 2 ft (.61 m) above any portion of roof within 10 ft (3.05 m) as shown in Figure 5.3.
- The distance required between caps is shown in Figure 5.3.

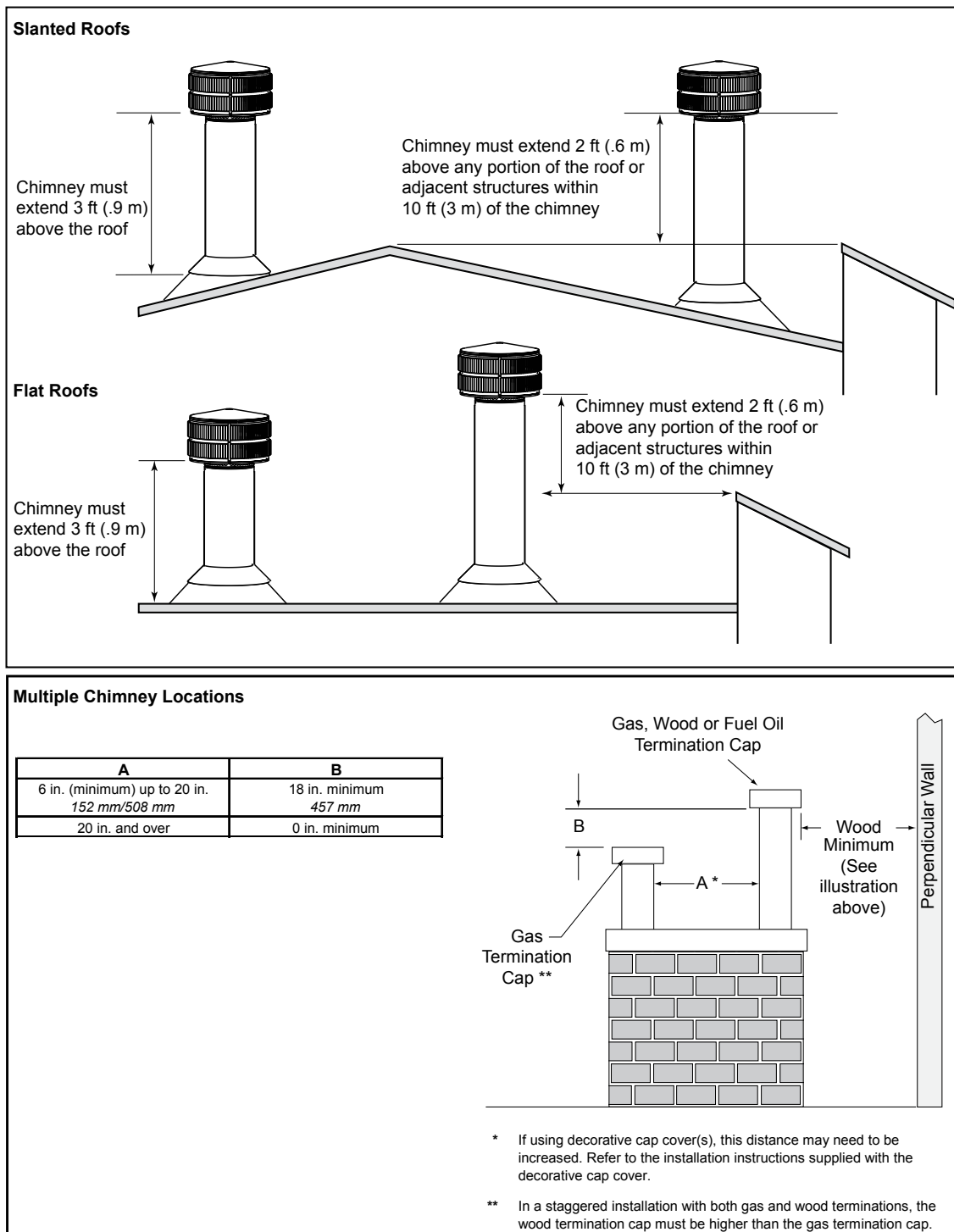


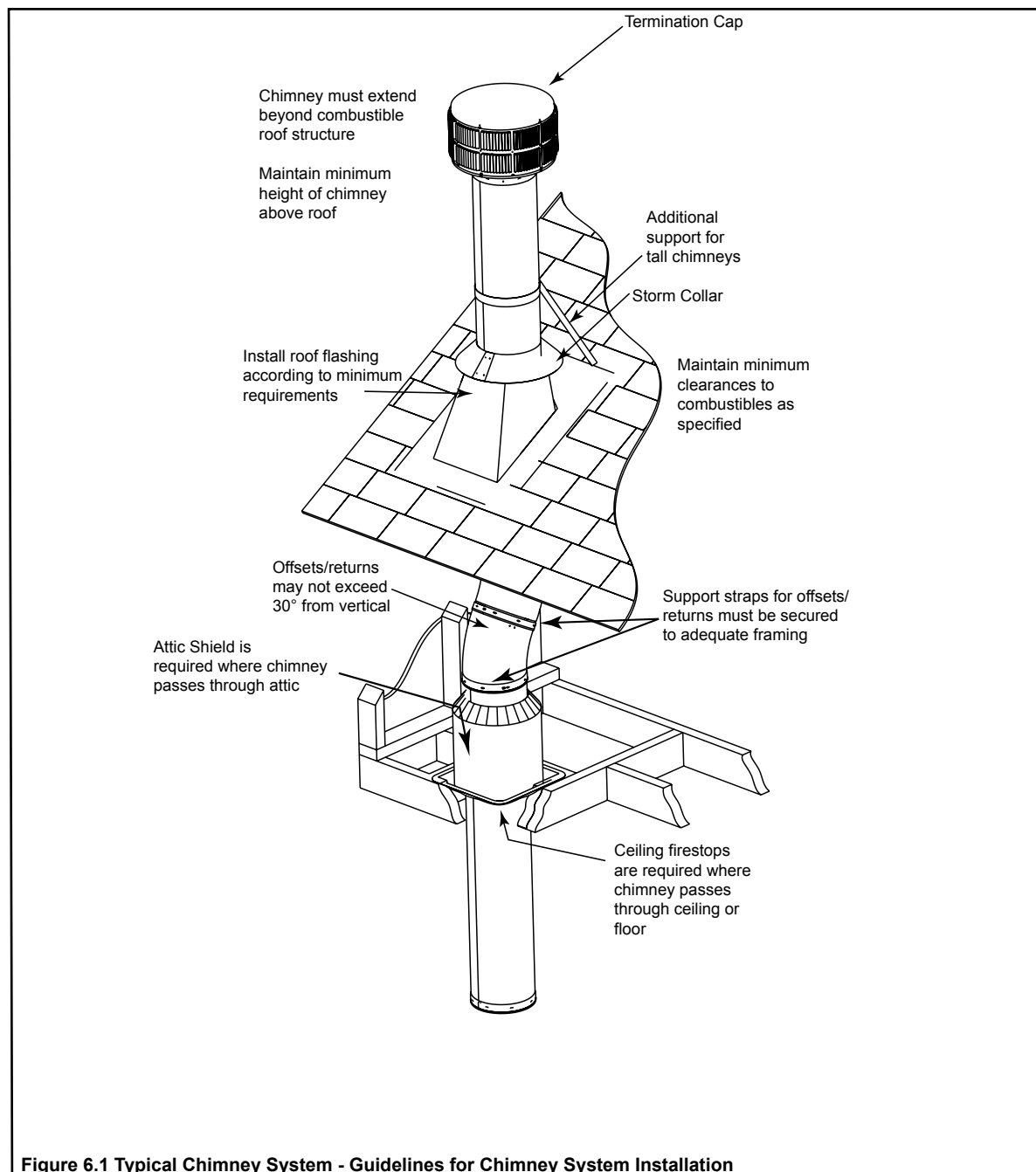
Figure 5.3 Multiple Chimney Locations

# 6 Chimney Installation

## A. Typical Chimney System

**NOTICE:** Chimney performance may vary.

- Trees, buildings, roof lines and wind conditions affect performance.
- Chimney height may need adjustment if smoking or overdraft occurs.



The SL300 series chimney (UL127 approved for use with this fireplace) is shipped with wrap around warning labels installed. These labels may be removed from the sections of chimney exposed above the roofline.

## B. Assemble Chimney Sections

Use only those components described in this manual.

Substitute or damaged chimney components could impair safe operation and cause overheating and fire.

Attach either a straight chimney section or an offset to the top of the fireplace (depending on your installation requirement). Chimney sections are locked together by pushing downward until the top section meets the stop bead on the lower section.

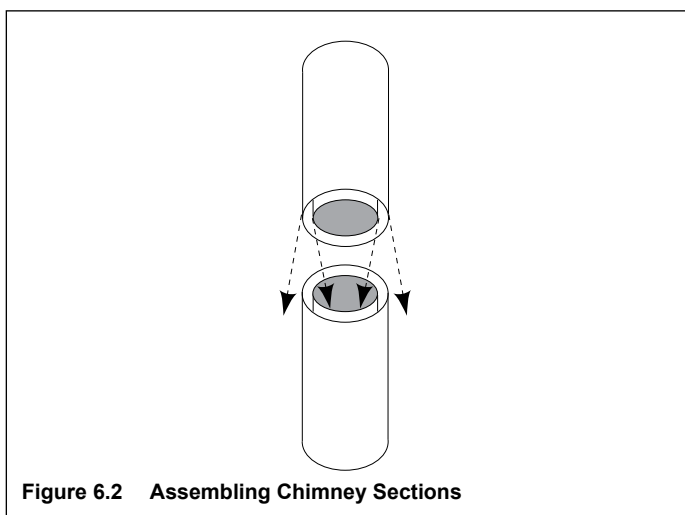
The inner flue is placed to the inside of the flue section below it. The outer casing is placed outside the outer casing of the chimney section below it. See Figure 6.2.

**NOTICE:** Chimney sections cannot be disassembled once locked together. Plan ahead!

- Lock chimney sections and/or offsets/returns together by pushing downward until the top section meets the stop bead on the lower section.
- Pull on the top section to make sure it is fully engaged and will not separate.
- You may use #6 or #8 sheet metal screws no longer than 1/2 in. (13 mm) to fasten chimney sections together. Do NOT penetrate inner flue.

**WARNING! Risk of Fire!** You **MUST** use screws to fasten offset/returns to chimney sections to keep the chimney parts from twisting. Failure to do so could cause fire.

- Fasten offset/returns to chimney sections. Do NOT penetrate inner flue.
- Secure chimney returns with hanger straps provided; fasten to studs or joists.
- Vertical straight runs of chimney must be supported every 35 ft (10.7 m).

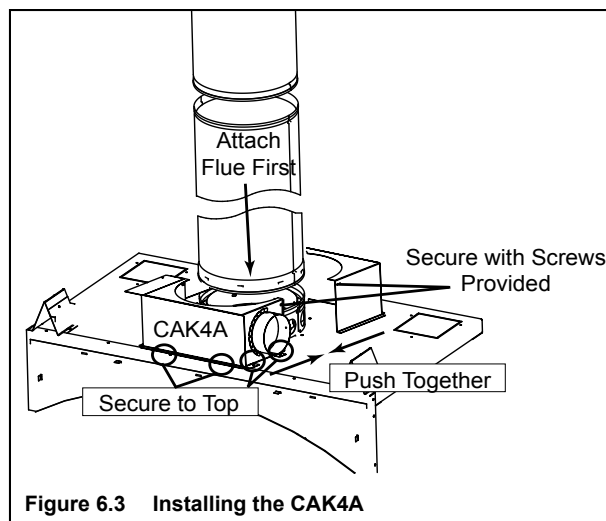


**WARNING! Risk of Fire! DO NOT** install substitute or damaged chimney components.

## C. Install Chimney Air kit (CAK4A)

**NOTICE:** Chimney Air Kit, Part CAK4A is required when using the SL-300 Pipe Series. Detailed instructions are supplied with the kit. If using the Dura-Plus System (must be 8 in./203 mm in diameter), the starter ring that came with the fireplace must be removed and replaced with the Dura-Plus Base Plate. The CAK4A is not required with a Dura-Plus System.

- Install the chimney pipe first.
- Hand bend the tabs in position before placing on the fireplace.
- Place the box on top of the fireplace around the chimney pipe, push both pieces together and secure with screws provided.
- Use the pre-punched holes in the tabs as guides and drill holes through the fireplace top.
- Secure the CAK4A in place. See Figure 6.3.
- Seal around the kit at the flue and at the top of the can with caulk. See Figure 6.3.

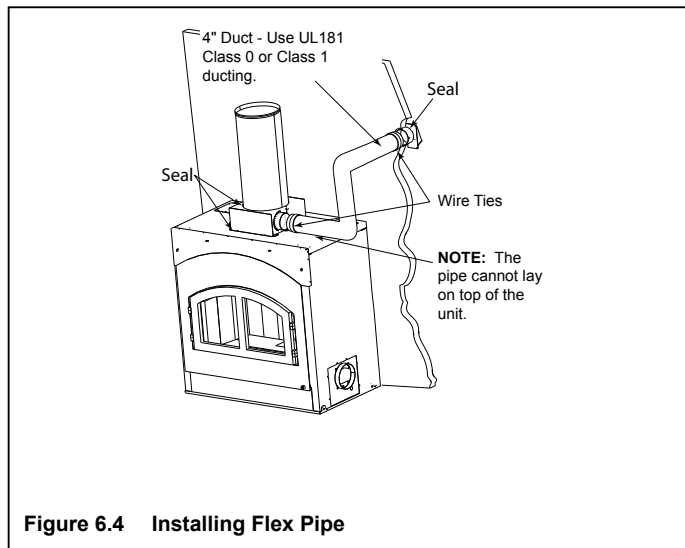


**NOTES:**

- The CAK4A termination cap must be a minimum of 4 ft (1219 mm) above the ground and kept free of debris.
- If the CAK4A is installed in a chase, the CAK4A side termination cap must be at least 3 ft (914 mm) below the chimney top.
- Seal around the cap and flex with caulk to stop air from getting into the chase (see Figures 6.4).
- The pipe cannot lay on top of the unit.

**WARNING! Risk of Fire!**

- *The flex pipe must never be compressed or deformed!*
- *Restricting the airflow inside the flex pipe may increase flue pipe temperatures causing a chase fire.*



## D. Secure Offset/Return

When offsets and returns are joined to straight pipe sections, they must be locked into position with screws (outer only). To prevent gravity from pulling the chimney sections apart, the returns and the chimney stabilizers have hanger straps for securing these parts to joists or rafters. See Figure 6.5.

- \* Use # 6 or # 8 sheet metal screw, or larger, no longer than 1/2 in. (13 mm).

### **WARNING! Risk of Fire!**

- Secure offsets with screws (not to exceed 1/2 in./13 mm in length).
- Secure returns with strapping.
- Straight chimney sections may be secured with screw (not to exceed 1/2 in./13 mm in length) at the joints.
- Keep chimney sections from separating or twisting.

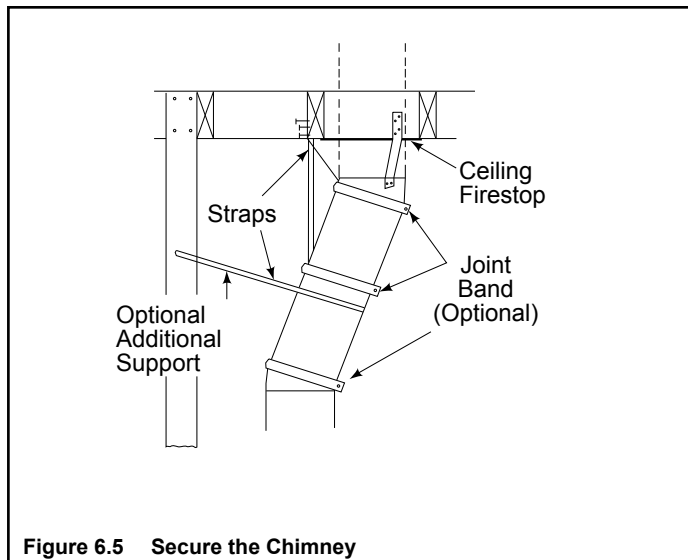


Figure 6.5 Secure the Chimney

## E. Install Ceiling Firestops

**CAUTION! Risk of Fire!** Ceiling firestops must be used whenever the chimney penetrates a ceiling/floor.

- Chase construction requires ceiling firestops at each floor or every 10 ft. (3.05 m) of clear space.
- The ceiling firestop slows spread of fire and reduces cold air infiltration.
- Install a ceiling firestop whenever chimney penetrates ceiling/floor.
- Mark and cut an opening in ceiling as shown in Figure 6.6.
- Frame the opening with the same size lumber used in the ceiling joists.
- Nail the ceiling firestop to the bottom of the ceiling joists when there is a room above.
- Use an attic insulation shield if the ceiling is insulated. The ceiling firestop may then be attached above or below the joists.

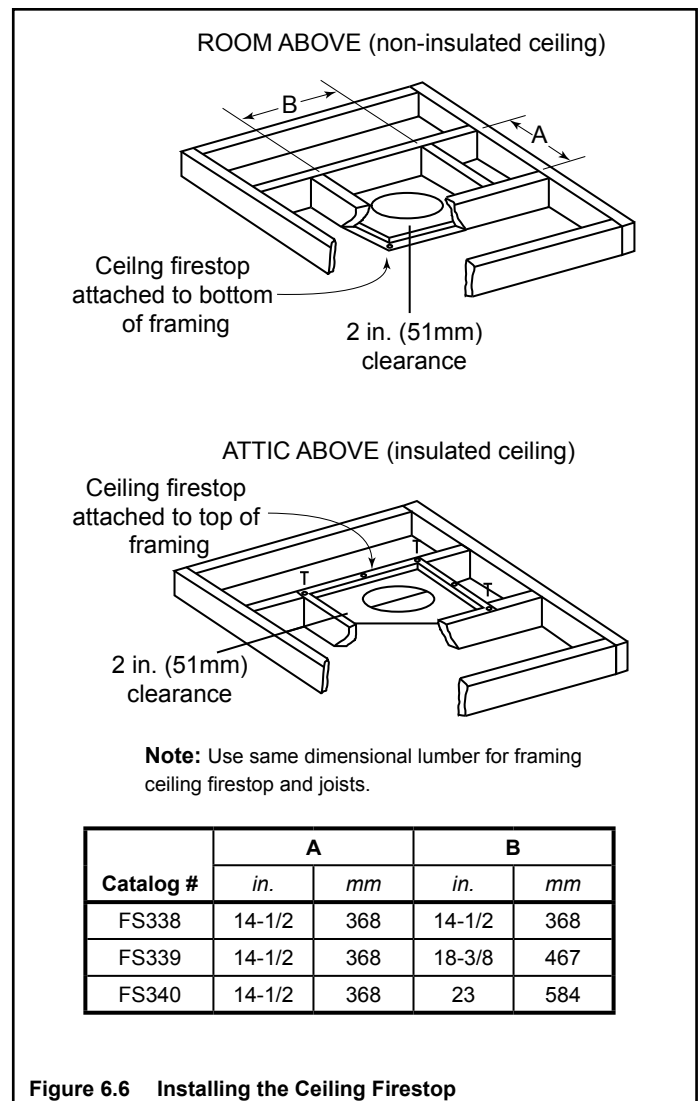


Figure 6.6 Installing the Ceiling Firestop

**WARNING! Risk of Fire! DO NOT** seal area between firestop opening and chimney pipe except where they enter the attic or leave the warm air envelope of the home (use 600° F sealant).

## F. Install Attic Insulation Shield

**WARNING! Risk of Fire!** You **MUST** install an attic insulation shield when there is any possibility of insulation or other combustible material coming into contact with the chimney.

- **DO NOT** pack insulation between the chimney and the attic insulation shield.
- Failure to keep insulation and other materials away from chimney pipe could cause fire.
- **DO NOT** offset chimney inside insulation shield.

Installation of a ceiling firestop is required:

- Refer to Figures 5.5, 5.6, 5.7.
- If the attic shield is pre-rolled continue. If it is a flat part, try and roll it up to aid in wrapping it around the chimney.
- Pre-bend all the tabs in at the top to 45°.
- Wrap the shield (around the chimney if already installed) until you have an overlap and the three holes on each side match up (large holes on top).
- Insert three screws into the matching holes to form a tube starting at the bottom.
- Bend the tabs on the bottom of the tube inward to 90° to maintain chimney air space.
- Rest the insulation shield on the ceiling firestop below.
- Tape off any opening around the bottom.

If you wish to make a custom shield or barrier, follow these guidelines:

- Metal is preferred, although any material stiff enough to hold back the insulation can be used.

**WARNING! Risk of Fire!** Use of cardboard or other materials that can deflect under humidity or other environmental conditions is not recommended.

- The shield or barrier must be tall enough to extend above the insulation and prevent blown-in insulation from spilling into the cavity.
- Maintain specified air spaces around chimney.
- Check instructions and local codes for further details.

### Double-check the Chimney Assembly

Continue assembling the chimney sections up through the ceiling firestops as needed. While doing so, be aware of the height and unsupported chimney length limitations given under Section 5.

Check each section by pulling up slightly from the top to ensure proper engagement before installing the succeeding sections. If they have been connected correctly, they will not disengage when tested.

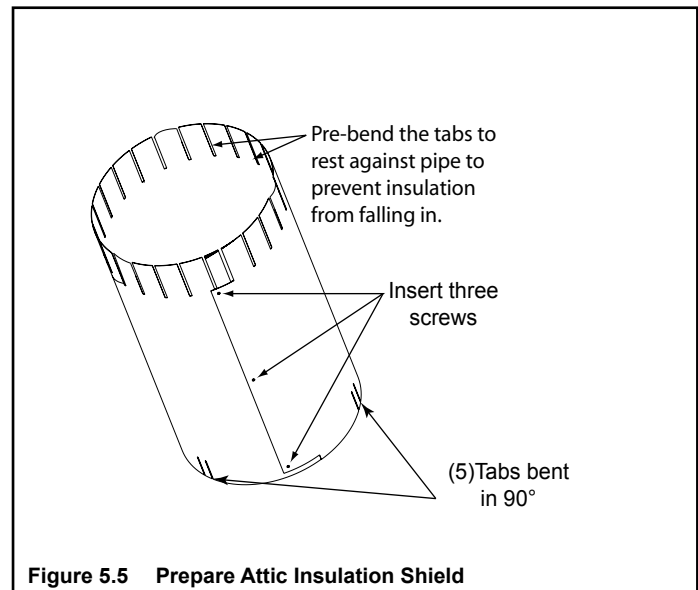


Figure 5.5 Prepare Attic Insulation Shield

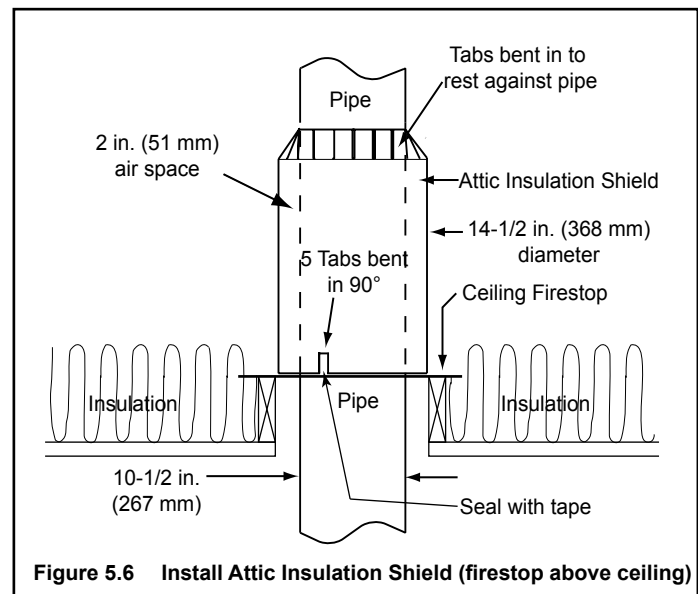


Figure 5.6 Install Attic Insulation Shield (firestop above ceiling)

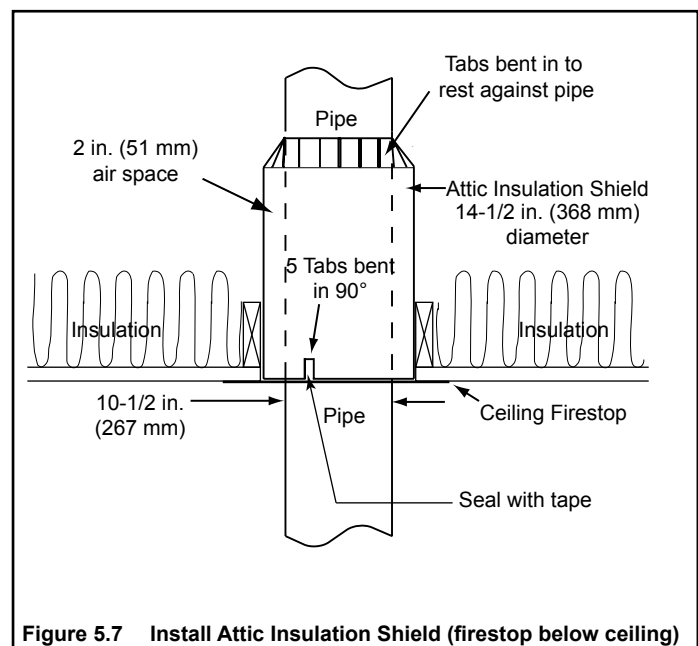


Figure 5.7 Install Attic Insulation Shield (firestop below ceiling)

## G. Roof Penetration

- Refer to Figure 6.10.
- Plumb from roof to center of chimney.
- Drive a nail up through roof to mark center of pipe.
- Measure to either side of nail and mark the 14-1/2 in. x 14-1/2 in. (368 mm x 368 mm) opening required.
- Measure opening on the horizontal; actual length may be larger depending on roof pitch.
- Cut out and frame opening.
- Refer to **Chapter 25** of the **Uniform Building Code** for roof framing details.

### Install Flashing

- Assemble chimney so it passes through the framed opening.
- Slip the flashing over the chimney.

**NOTICE:** Roofing shingles must be below the flashing plate on the lower side of a sloped roof and over the flashing plate on the sides and top.

- Nail the flashing to the roof. Keep gaps between the flashing plate and the roof to a minimum.
- Caulk the flashing plate and roof junction as well as the vertical seam on the flashing. All nail heads must be caulked with a roofing sealant.
- Caulk the overlap seam of any exposed pipe sections that are located above the roof line to prevent leaks.

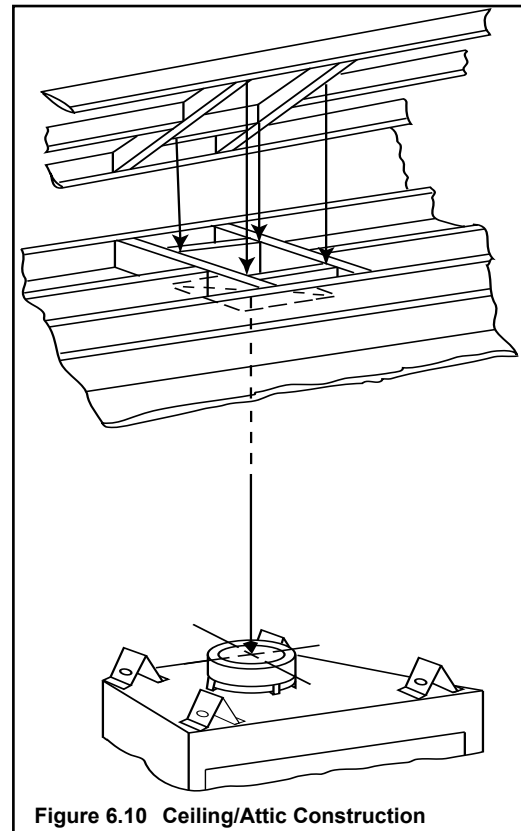


Figure 6.10 Ceiling/Attic Construction

## H. Manufactured Home Installation

### SL-300 Series Ceiling/Roof Thimble

**NOTICE: REQUIRED** for manufactured homes.

- Locate the point where the chimney will exit the roof by plumbing down to the center of the chimney. Lay out, cut and frame a 14-1/2 in. (368 mm) square opening (measured on the horizontal) through the ceiling and roof structure. **Consult local codes for framing details.**
- The thimble must extend completely through the roof structure shielding combustible materials. Five location holes have been provided to allow for a variety of ceiling/roof thicknesses. A thimble extension is required when the ceiling/roof thickness exceeds 12-1/2 in. (318 mm). The extension should overlap the thimble one inch.
- To attach the extension to the thimble, drill 1/8 in. (3 mm) holes through the outer shield of the thimble using the predrilled holes in the extension as guides. Attach the extension to the thimble using the screws provided with the extension.
- Install the thimble assembly and nail it securely to the framing members.
- Center the flashing over the chimney and nail it to the roof. Keep gaps between the flashing plate and the roof to a minimum. Caulk the flashing plate and roof junction as well as the vertical seam on the flashing. All nail heads must be caulked with a roofing sealant.
- Finish assembling the chimney storm collar and termination cap following the installation instructions provided with them.

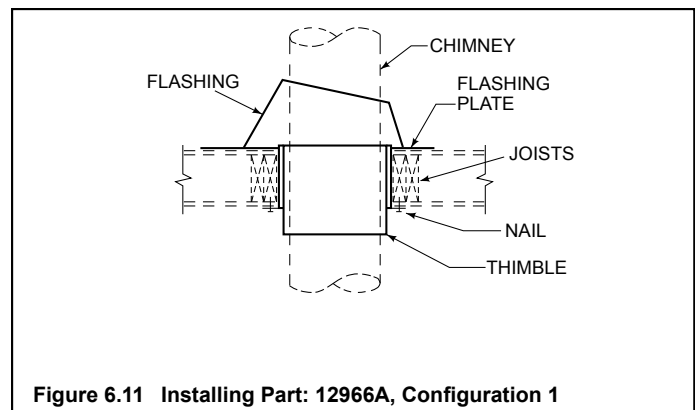


Figure 6.11 Installing Part: 12966A, Configuration 1

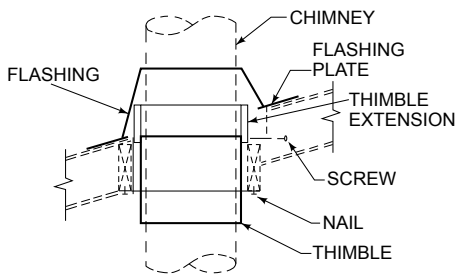


Figure 6.12 Installing Part 12966A, Configuration 2

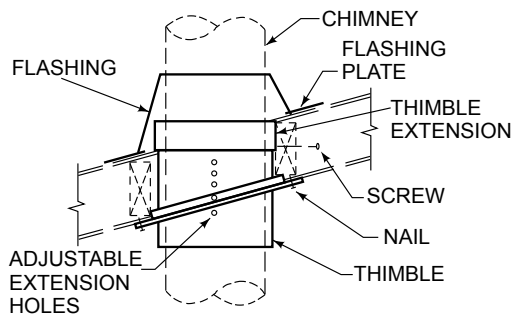


Figure 6.13 Installing Part 12966A Configuration 3

## I. Install Chase/Chase Top

- You **MUST** use a chase top in a chase installation. Chase tops are available from your Quadra-Fire dealer or may be field constructed.
- Include a turn-down and drip edge to prevent water from seeping into the chase.
- Include a 2 in. (51 mm) soldered, welded or spun collar around pipe opening to keep water out.
- Provide a 1/8 in. (3 mm) gap around the flue pipe.
- Slope the chase top downward away from the opening.

**WARNING! Risk of Fire! DO NOT** caulk the pipe to the chase top collar.

- Caulk all seams to prevent leaks.

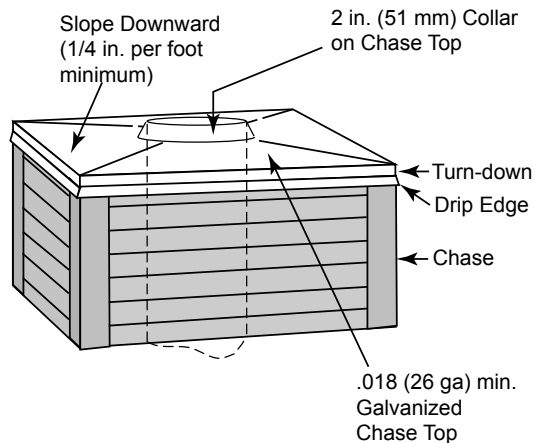


Figure 6.14 Chase Top Construction



## J. Termination Cap Requirements

- Install a cap approved and listed for this fireplace system.
- Locate cap where it will not become plugged by snow or other materials.
- Locate cap away from trees or other structures.
- The bottom of the termination cap must be at least 3 ft (.91 m) above the roof AND at least 2 ft (.61 m) above any portion of roof within 10 ft (3.05 m).

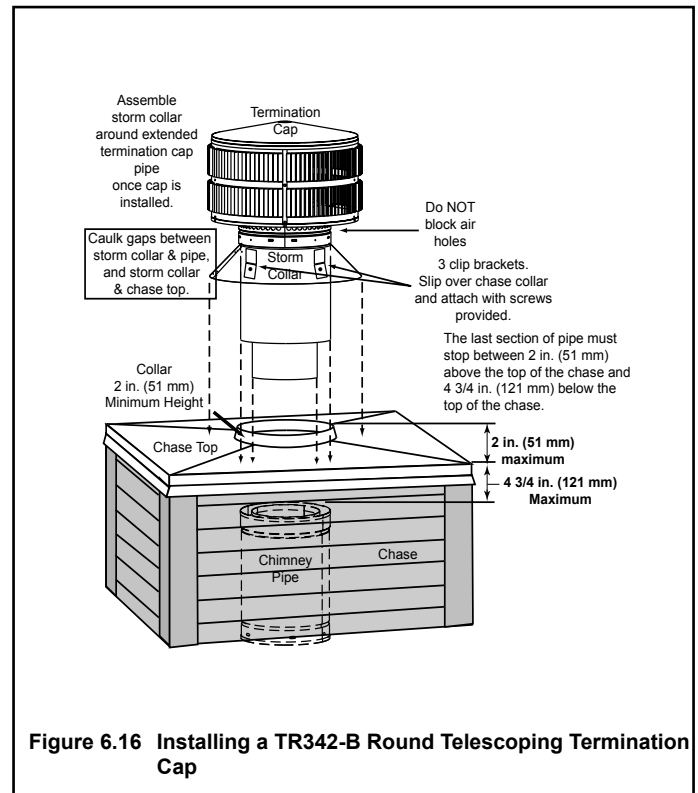
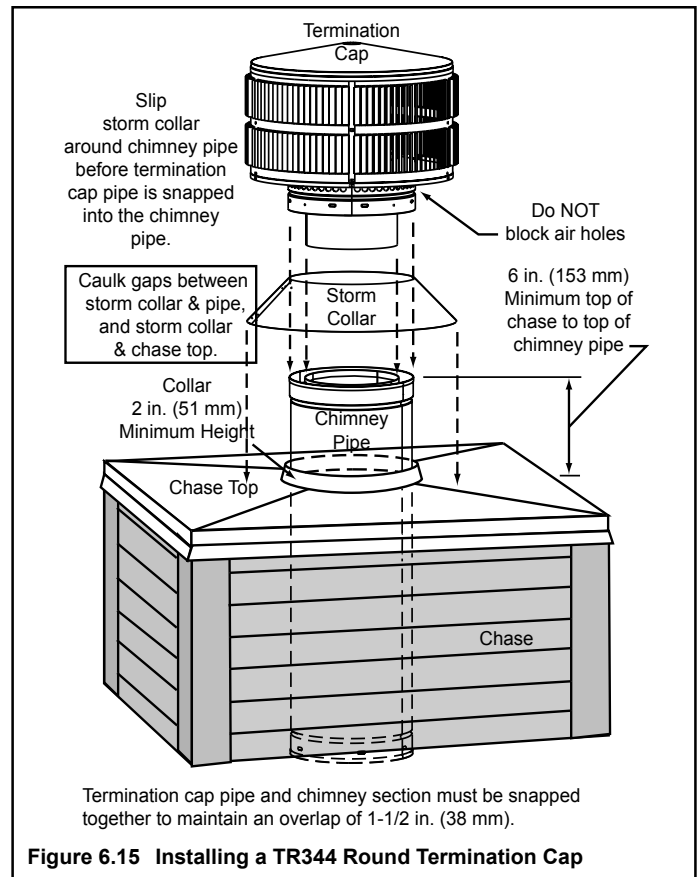
## K. Install Termination Cap

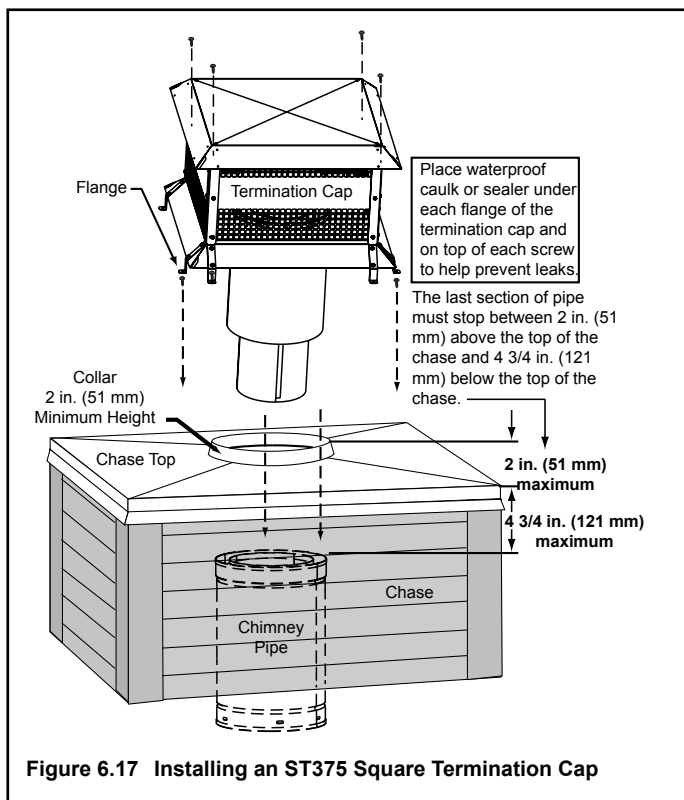
Install the chimney sections up through the chase enclosure.

- Caulk the overlap seam of any exposed pipe sections that are located above the roof line to prevent leaks.
- Refer to termination cap instructions.

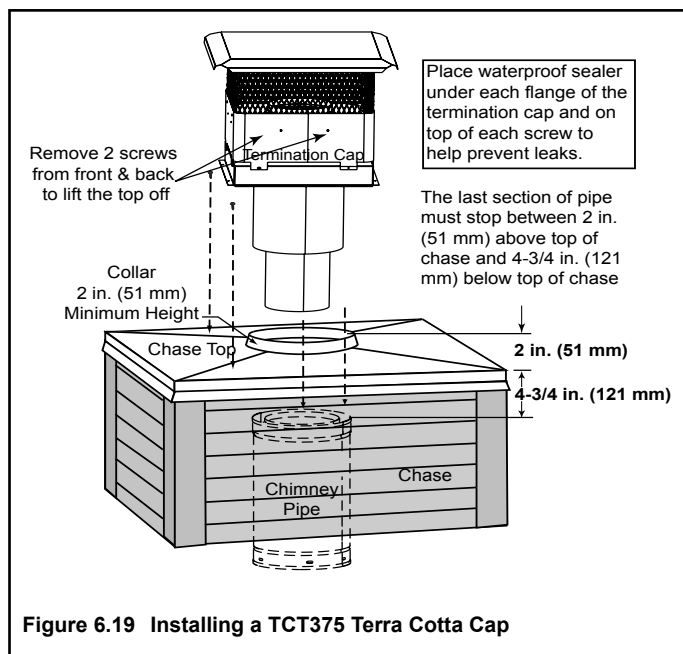
**WARNING! Risk of Fire!** The minimum overlap of cap to pipe (as shown in the following illustrations) **MUST** be met or chimney may separate from cap. Separation allows sparks, heat and embers to escape.

**NOTICE:** Paint the termination cap with a rust-resistant paint to protect against the effects of corrosion on those parts exposed to the weather.

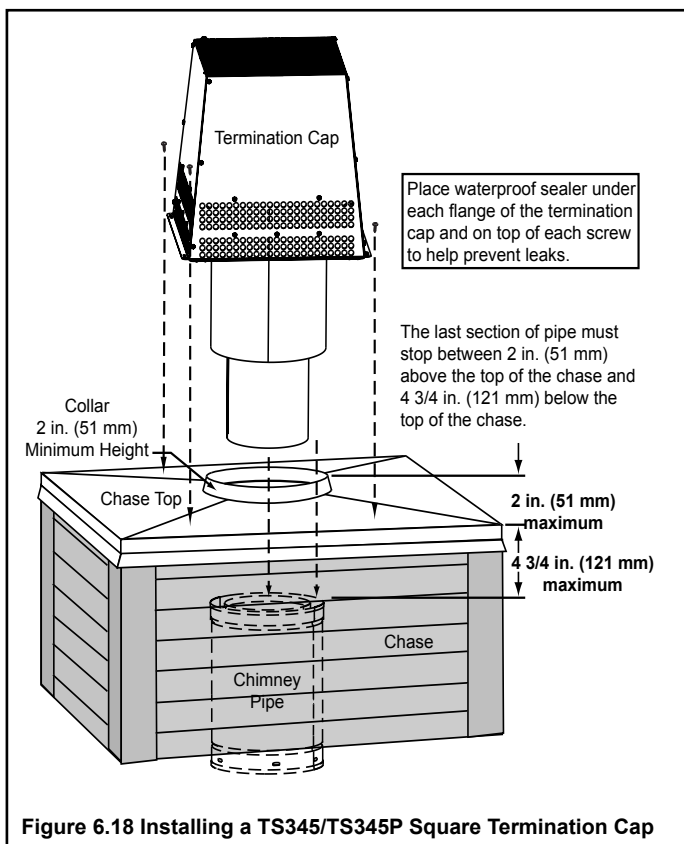




**Figure 6.17 Installing an ST375 Square Termination Cap**



**Figure 6.19 Installing a TCT375 Terra Cotta Cap**



**Figure 6.18 Installing a TS345/TS345P Square Termination Cap**

# 7 Finishing

## A. Template

A cardboard template of the front is printed on the outside of the shipping box. Cut out the template along the outside of the line for use in your installation. A metal template (see catalog) is available for more durable continued use, remaining accurate over time. Both measure 1/8 in. (3 mm) larger all the way around than the actual front.

Note: This 1/8 in. of the non-combustible material must be painted or the red will be visible.

**Tools Required:** 1/8 in. Allen wrench.

- Remove the doors on the fireplace (if installed).
- Remove the screws from the fascia and remove fascia from the fireplace (if installed). Save the screws. Store the fascia in a safe, protected area to prevent scratching or other damage.
- Install the template on the front of the fireplace (Figure 7.1) using the screws saved in the previous step.

You are now ready to continue your installation with the desired decorative material. The template also serves as a protective covering and prevents damage to the front of the fireplace.

**NOTE:** The decorative fascia must be removable for future serviceability of the automatic combustion control.

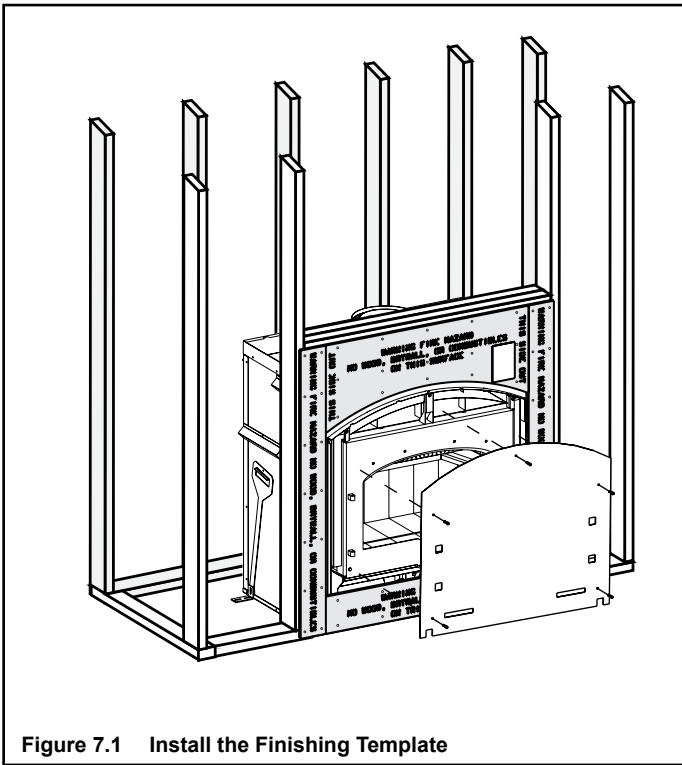


Figure 7.1 Install the Finishing Template

**Note:** **DO NOT** remove hang tags until installing finish materials.

## B Finish the Wall

Use a wet or dry towel or a soft brush to remove any dust or dirt from the non-combustible facing material.

Apply a non-combustible adhesive to attach tile, stone or other non-combustible finishing materials per manufacturer's instructions.

### 1. Stone, Brick Finish

**WARNING! Risk of Fire! DO NOT** apply tar paper or water resistive barrier over non-combustible board.

- Apply metal lath to the 1/2 in. thick non-combustible board with corrosion resistant self-tapping screws capable of penetrating the metal surface behind the non-combustible board.
- HHT recommends using type N or type S mortar. Due to high temperatures, review polymer modifiers specification sheet before using.

### 2. Tile, Granite, Marble Finish

- Due to high temperatures, HHT recommends using unmodified thinset when applying tile.
- When applying granite or marble, HHT recommends using thinset to adhere. If using a different adhesive, review specification sheet for application in high temperature areas.

## C. Mantel and Wall Projections

A combustible mantel may be positioned no lower than 60 in. (1524 mm) from the base of the fireplace.

Minimum clearance faceplate to sidewall is 16 in.

The combustible mantel may have a maximum depth of 12 in. (305mm). Combustible trim pieces that project no more than 3/4 in. (19 mm) from the face of the fireplace can be placed no closer than 6 in. (152 mm) from the side of the decorative front. Surround legs that project more than 3/4 in. must be 16 in. away from the side of the decorative front. Combustible trim must not cover:

- the metal surfaces of the fireplace
- where the non-combustible board is placed over the metal surfaces
- the space between the metal face of the fireplace and framing members

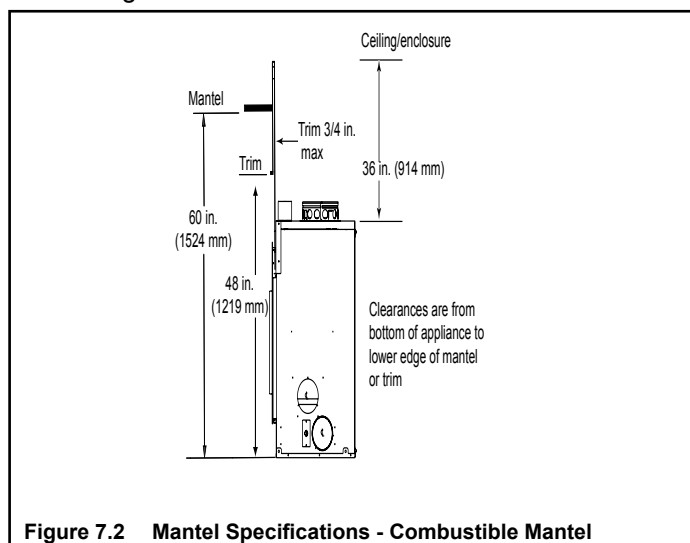


Figure 7.2 Mantel Specifications - Combustible Mantel

A noncombustible mantel may be positioned no lower than 46 in. (1168 mm) from the base of the fireplace.

Noncombustible framing materials must be used above the fireplace to a height of 84 in. (2134 mm) or to the ceiling from the base of the fireplace for all construction materials, framing members, sheeting, and all finish materials.

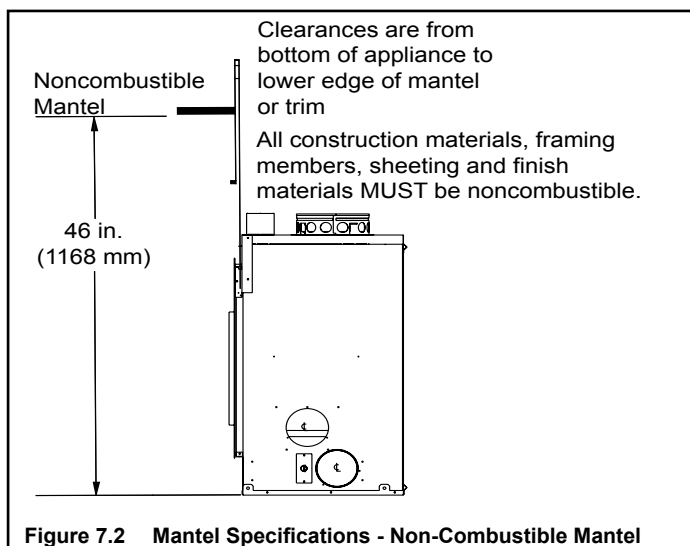


Figure 7.2 Mantel Specifications - Non-Combustible Mantel

## D. Finishing the Hearth Extension

**WARNING! Risk of Fire!** High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips **MUST** be installed.
- Hearth extensions **MUST** be installed exactly as specified.

A hearth extension must be installed with all fireplaces to protect the combustible floor in front of the fireplace from both radiant heat and sparks.

- You **MUST** use a hearth extension with this fireplace.
- Refer to Figure 7.4 for minimum dimensions.
- This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 2.06.
- The hearth extension material **MUST** be covered with tile, stone or other non-combustible material.
- Manufactured hearth materials will usually have a published **R value** (resistance to heat) or **k value** (conductivity of heat). Refer to the formula in Table 7.1 to convert a k value to an R value,
- Refer to Table 7.2 for hearth extension insulation alternatives.

Table 7.1

$$R = 1/k \times \text{inches of thickness}$$

Table 7.2

| Hearth Extension Insulation Alternatives, R Value = 2.06 |                  |                  |                            |
|--|------------------|------------------|----------------------------|
| Material   | k per inch thick | r per inch thick | Minimum thickness required |
| Hearth & Home HX3, HX4                                   | 0.49             | 2.06             | 1 in.                      |
| USG Micore 300™  | 0.49             | 2.06             | 1 in.                      |
| USG Durock™ Cement Board                                 | 1.92             | 0.52             | 4 in.                      |
| Cement Mortar  | 5.0              | 0.20             | 10 1/2 in.                 |
| Common Brick   | 5.0              | 0.20             | 10 1/2 in.                 |
| Ceramic Tile   | 12.50            | 0.08             | 25 3/4 in.                 |
| Armstrong™ Privacy Guard Plus                            | 0.46             | 2.18             | 1 in.                      |
| Marble   | 14.3-20.0        | 0.07-0.05        | 29 1/2 - 41 1/4 in.        |

### WARNING! Risk of Fire!

You must comply with all minimum air space clearances to combustibles as specified. Framing or finishing material used on the front of, or in front of, the fireplace closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.). Failure to comply may cause fire.

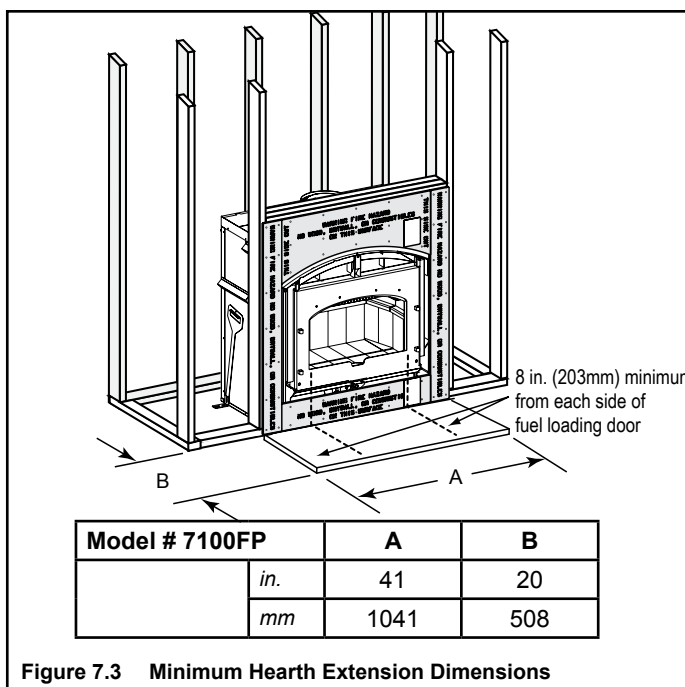


Figure 7.3 Minimum Hearth Extension Dimensions

- Fireplace and Hearth Extension flush on the floor  
Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 8 in. (203 mm) to either side of the fuel opening is required as shown in Figure 7.3.  
The construction of, and materials used for a hearth extension are shown in Figure 7.4. A hearth extension of this construction may be covered with any non-combustible decorative material and may have a minimum thickness as per Figure 7.4. Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.

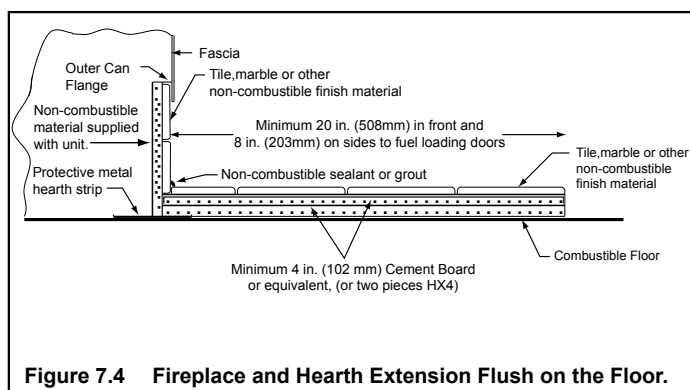


Figure 7.4 Fireplace and Hearth Extension Flush on the Floor.

- Fireplace installed flush on the floor and hearth extension raised to bottom of fascia:  
Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 8 in. (203 mm) to either side of the fuel opening is required (see Figure 7.3).
- Raised Hearth Extension Framing  
The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and topped with two HX4s, or equivalent material (Table 7.2).  
**When creating the platform, allow for the thickness of the non-combustible finishing materials (Figure 7.5).**

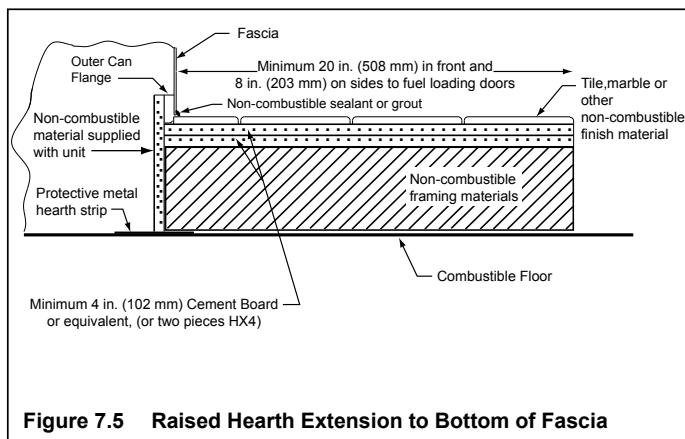


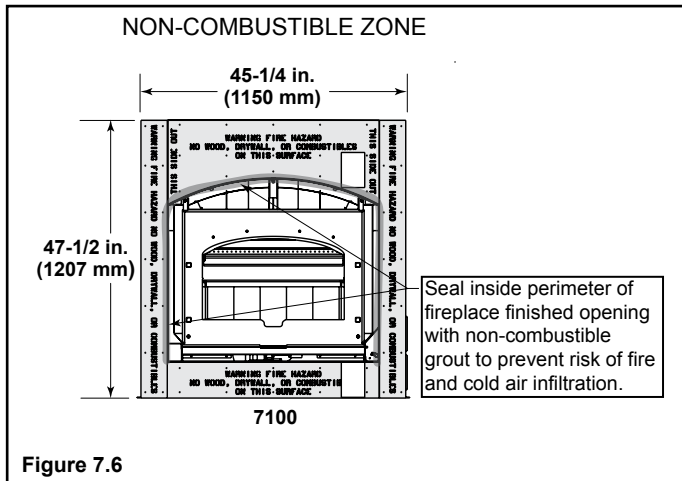
Figure 7.5 Raised Hearth Extension to Bottom of Fascia

### **WARNING! Risk of Fire!**

Hearth extensions are to be installed only as illustrated to prevent high temperatures from occurring on concealed combustible materials.

## E. Non-Combustible Sealant Material

- After completing the installation of non-combustible material in the required non-combustible zone and the non-combustible finishing material over that, remove the template.
- A bead of non-combustible sealant (or Super Calstick) must be used to close off any gaps at the top and sides between the fireplace and non-combustible facing (Figure 7.6) to prevent cold air leaks and the risk of fire. Large gaps can be bridged with fiberglass rope gasket.
- When installation of the decorative material is complete, replace/install the fascia and fireplace doors.



### **WARNING! Risk of Fire!**

- *Maintain clearances.*
- *Use only non-combustible material below standoffs, material such as cement board is acceptable.*
- *Framing or finishing material used on the front of the fireplace closer than the minimums listed, must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).*

### **WARNING! Risk of Fire!**

*Hearth & Home Technologies is not responsible for discoloration, cracking or other material failures of finishing materials due to heat exposure or smoke.*

- *Choose finishing materials carefully.*

# 8 Fireplace Setup

## A. Firebrick Placement

The firebox of your fireplace is lined with high quality firebrick, which has exceptional insulating properties.

Do not use a grate; simply build a fire on the firebox floor.

Do not operate the fireplace without bricks. Make sure bricks are installed as shown.

**IMPORTANT:** The bricks are very similar in size. Be certain you have the proper brick in the correct location. Measure the brick size for accuracy.

- Remove new brick set from box and lay out to diagram as shown in Figure 8.2.
- Lay bottom bricks in firebox.
- Install rear bricks on the top of the bottom bricks. Slide top of bricks under clip on back of firebox wall and push bottom of brick back.
- Install side bricks. Slide top of brick under clips on side of firebox and push the bottom of the brick until it is flush with the side of the firebox.

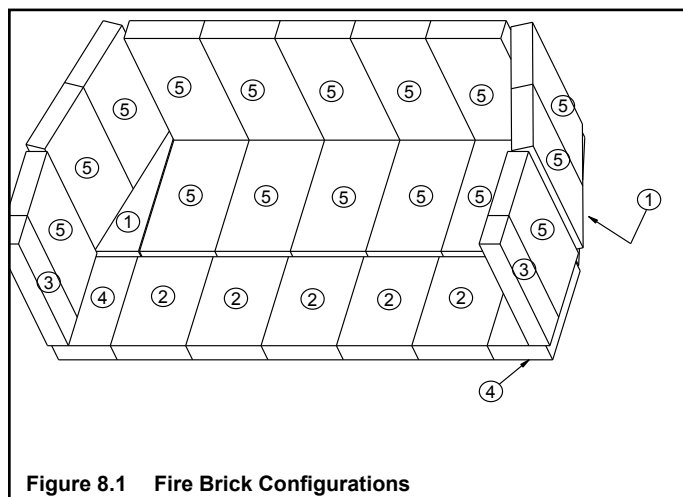


Figure 8.1 Fire Brick Configurations

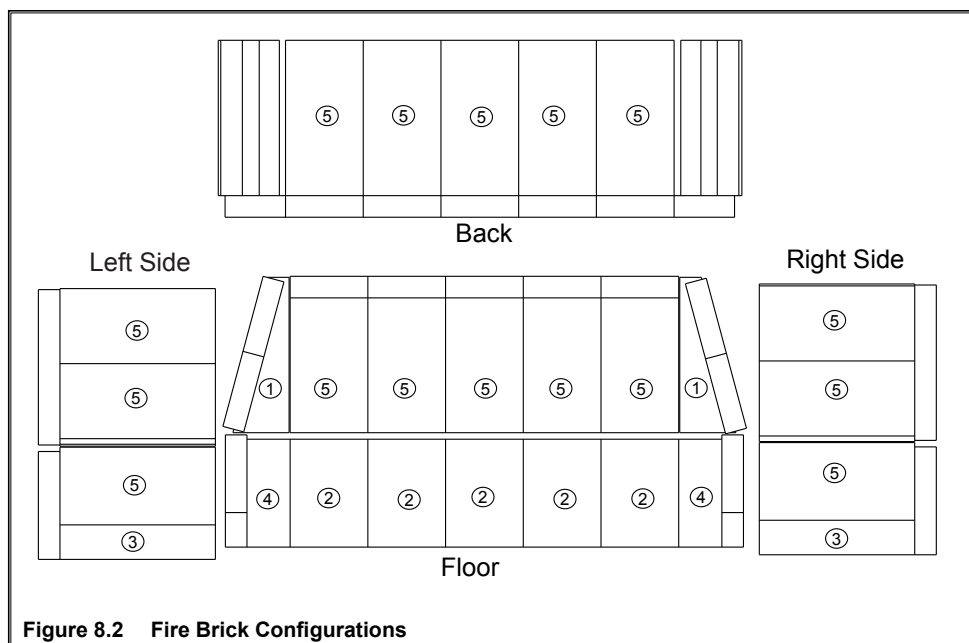
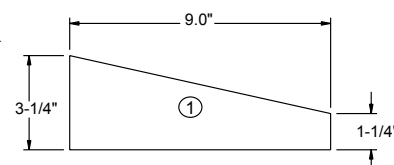


Figure 8.2 Fire Brick Configurations

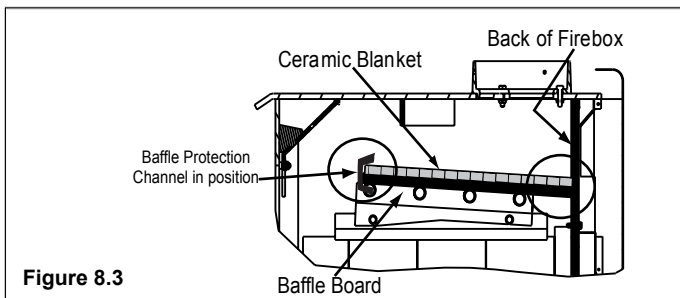
Table 8.1

| # | Brick Size                                | Qty. In Set |
|---|---|-------------|
| 1 | 9" x 3-1/4" x 1-1/4" Angled (see drawing) | 2           |
| 2 | 6-1/4" x 4-1/2" x 1-1/4"                  | 5           |
| 3 | 9" x 2" x 1-1/4"                          | 2           |
| 4 | 6-1/4" x 3-1/2" x 1-1/4"                  | 2           |
| 5 | 9" x 4.5" x 1-1/4"                        | 16          |



## B. Baffle and Blanket Placement

Ensure correct baffle and baffle protection channel placement; replace baffle components if damaged or missing.



The ceramic blanket and baffle board **MUST** be in contact with the back of the firebox and even with each other in the front. The baffle protection channel **MUST** be in position.

## C. Install Fascia (Fronts)

Fronts are required to complete the installation. The 7100 fireplace allows a choice of fronts, therefore they are shipped separately from the fireplace due to customer preference and selection. Instructions for attachment of the fronts are included with them. Contact your local dealer with any questions on offerings or installation.

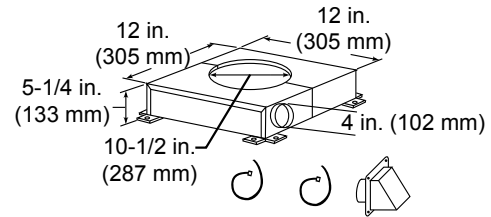


# 9 Reference Materials

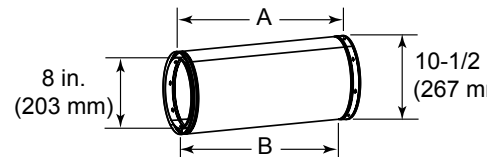
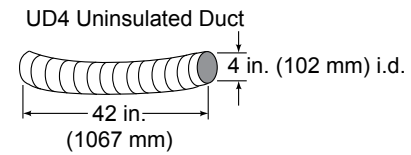
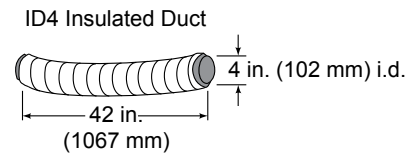
## A. Chimney Components

The following drawings show the SL-300 Series chimney and fireplace components which may be safely used with this fireplace. The 8 in. DuraPlus can also be used.

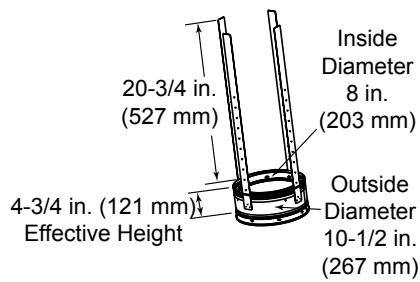
| Catalog #  | Description  |
|------------|--|
| CAK4A      | Chimney Air Kit (shipped with fireplace)   |
| ID4        | Insulated Duct (used with chimney air kit)                                       |
| UD4        | Uninsulated Duct (used with chimney air kit)                                     |
| SL306      | Chimney Section - 6 in. (152 mm) long  |
| SL312      | Chimney Section - 12 in. (305 mm) long   |
| SL318      | Chimney Section - 18 in. (457 mm) long   |
| SL324      | Chimney Section - 24 in. (610 mm) long   |
| SL336      | Chimney Section - 36 in. (914 mm) long   |
| SL348      | Chimney Section - 48 in. (1219 mm) long  |
| SL3        | Chimney Stabilizer   |
| SL315      | Chimney Offset/Return - 15 deg   |
| SL330      | Chimney Offset/Return - 30 deg   |
| FS338      | Ceiling Firestop - Straight  |
| FS339      | Ceiling Firestop - 15 deg  |
| FS340      | Ceiling Firestop - 30 deg  |
| AS8        | SL300 Straight Attic Insulation Shield, 24 in. (610 mm) (shipped with fireplace) |
| JB877      | Chimney Joint Band   |
| CB876      | Chimney Bracket  |
| RF370      | Roof Flashing - Flat to 6/12 Pitch   |
| RF371      | Roof Flashing - 6/12 to 12/12 Pitch  |
| DTO134/146 | Octagonal Decorative Caps  |
| DTS134/146 | Square Decorative Caps   |
| ST375      | Square Termination Cap   |
| TCT375     | Terra Cotta Termination Cap  |
| TR344      | Round Termination Cap  |
| TR342-B    | Round Telescoping Termination Cap  |
| TR-TVK     | TR Top Vent Kit  |
| TS345      | Square Termination Cap   |
| TS345P     | Square Termination Cap - Painted   |
| 12966A     | Manufactured Home Thimble  |
| MH841      | Manufactured Home Thimble Extension 20 in./508 mm                                |
| HX4        | Micore Hearth Extension, 20 in./508 mm wide                                      |
| LDS33      | Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)                                  |
| LDS46      | Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)                                |
| LDS-BV     | Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)                            |
|            | Field Constructed Shrouds (See "Woodburning Termination Cap")                    |
| CT-3A-B    | Adapter - May be used with the following caps                                    |
|            | CT Series  |
|            | DT Series  |
| 8DP-BP     | Duraplus Base Plate (required if using DuraPlus Chimney)                         |



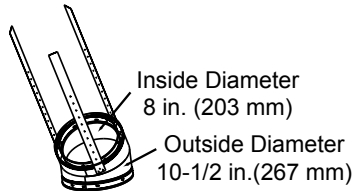
**CAK4A Chimney Air Kit (shipped with fireplace)**



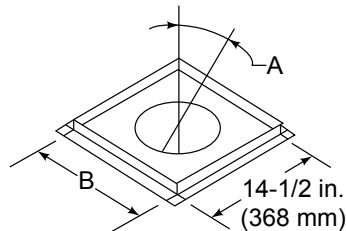
| Catalog # | A  |      | B      |      |
|-----------|----|------|--------|------|
|           | in | mm   | in     | mm   |
| SL306     | 6  | 152  | 4-3/4  | 121  |
| SL312     | 12 | 305  | 10-3/4 | 273  |
| SL318     | 18 | 457  | 16-3/4 | 425  |
| SL324     | 24 | 610  | 22-3/4 | 578  |
| SL336     | 36 | 914  | 34-3/4 | 883  |
| SL348     | 48 | 1219 | 46-3/4 | 1187 |



**SL3 Chimney Stabilizer**



**SL315 Chimney Offset/Return - 15 deg.**  
**SL330 Chimney Offset/Return - 30 deg.**

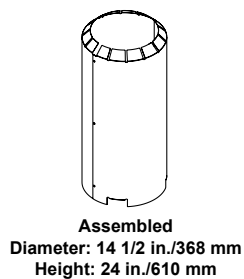


**Firestop Spacer**

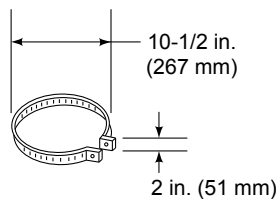
| Catalog # | A       | B          |        |
|-----------|---------|------------|--------|
| FS338     | 0-deg.  | 14-1/2 in. | 368 mm |
| FS339     | 15-deg. | 18-3/8 in. | 467 mm |
| FS340     | 30-deg. | 23 in.     | 584 mm |

A = Actual Length

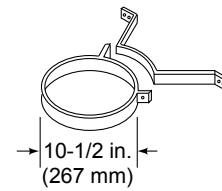
B = Effective length (length of chimney part after it has been snapped to another)



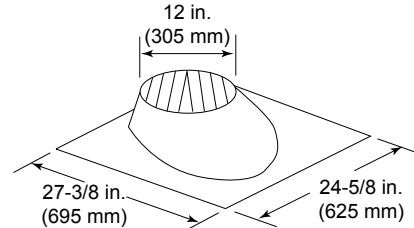
**AS8 SL300 Straight Attic Insulation Shield (shipped with unit)**



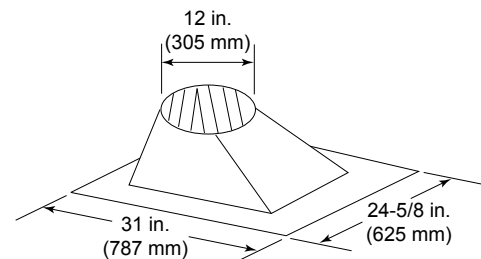
**JB877 Chimney Joint Band**



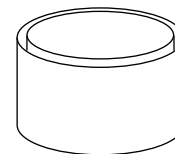
**CB876 Chimney Bracket**



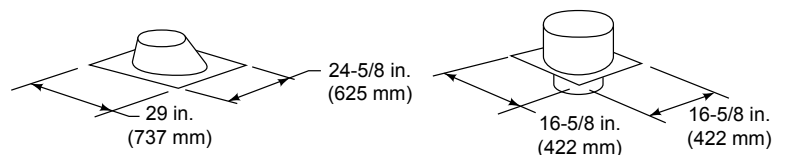
**RF370 - Roof Flashing Flat to 6/12 Pitch**



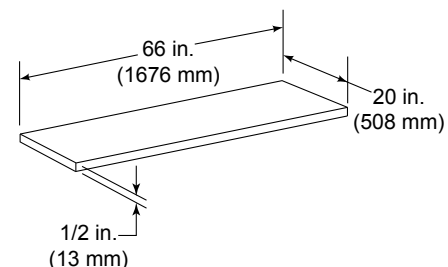
**RF371 - Roof Flashing 6/12 to 12/12 Pitch**



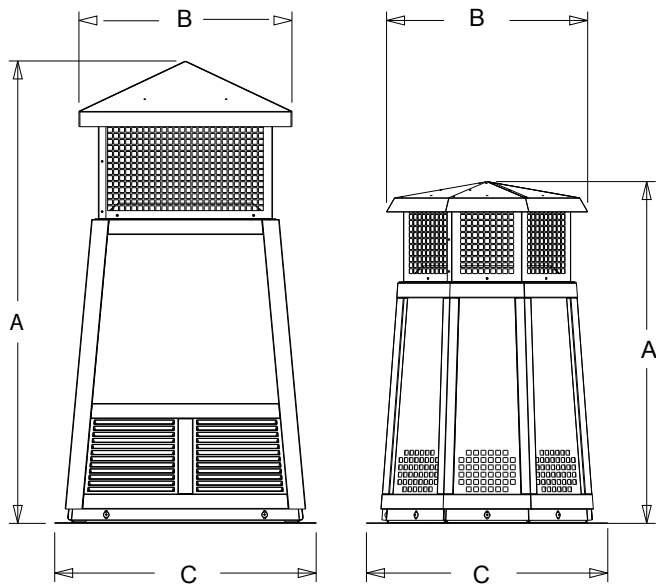
**MH841 Manufactured Home Thimble Extension**



**12966A Manufactured Home Thimble**



**HX4 Micore Hearth Extension**



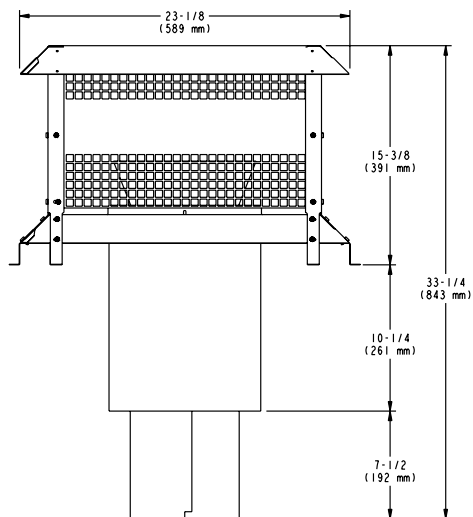
**DTS134/DTS146**

**DTO134/DTO146**

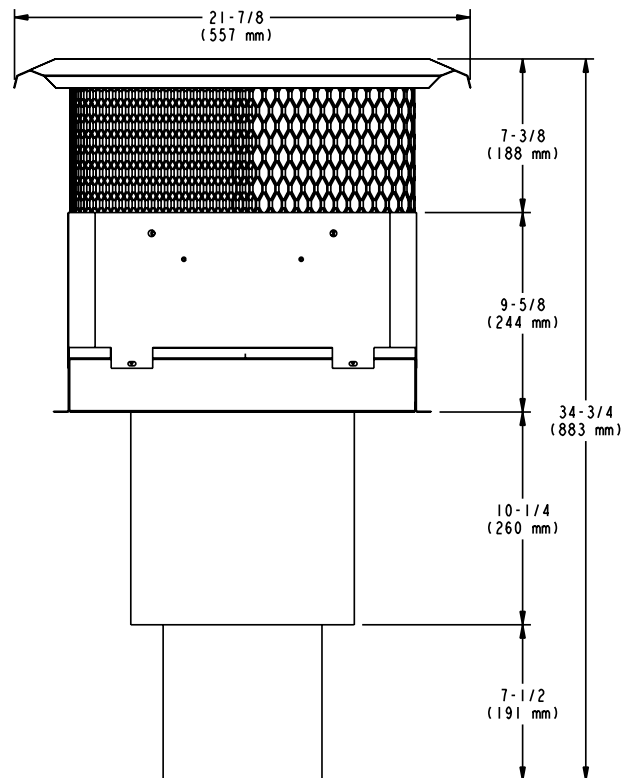
**Decorative Caps**

| DTO134 |    | A    | B    | C   |
|--------|----|------|------|-----|
|        | in | 34   | 20   | 24  |
|        | mm | 864  | 508  | 610 |
| DTO146 |    | A    | B    | C   |
|        | in | 46   | 22.7 | 26  |
|        | mm | 1168 | 576  | 660 |

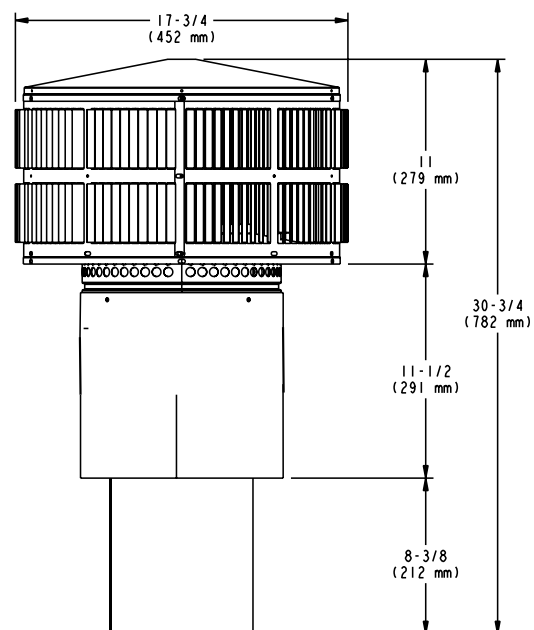
| DTS134 |    | A    | B     | C   |
|--------|----|------|-------|-----|
|        | in | 34   | 21.18 | 24  |
|        | mm | 864  | 538   | 610 |
| DTS146 |    | A    | B     | C   |
|        | in | 46   | 21.18 | 26  |
|        | mm | 1168 | 538   | 660 |



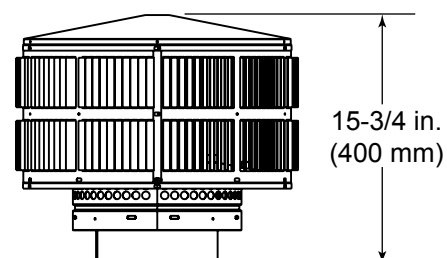
**ST375 Square Termination Cap**



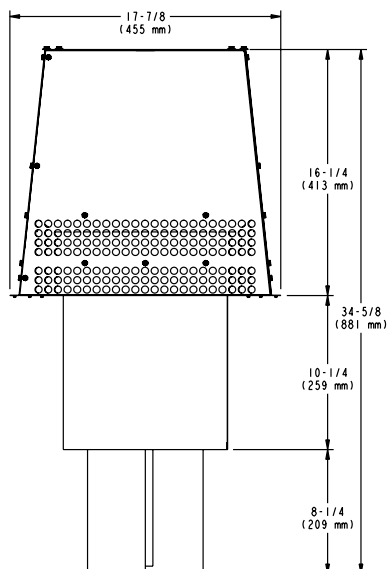
**TCT375 Terra Cotta Cap**



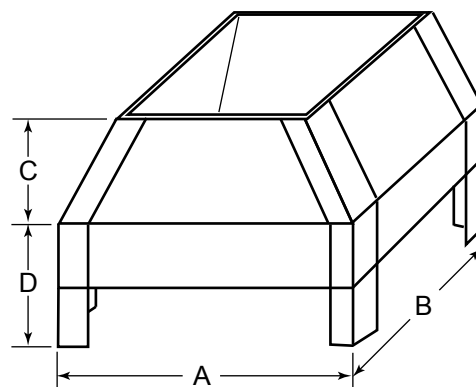
**TR342-B Round Telescoping Termination Cap**



**TR344 Round Termination Cap**

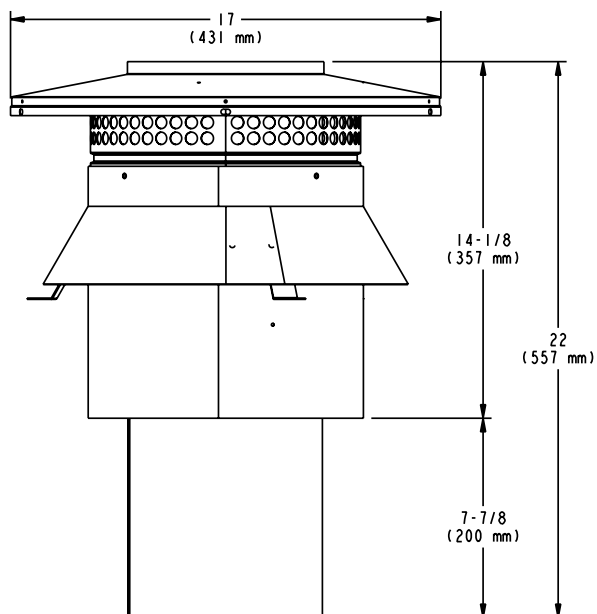


**TS345/TS345P Square Termination Cap**

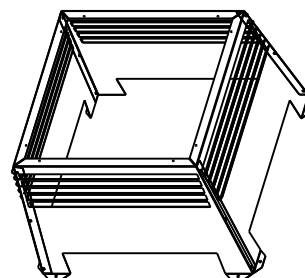


**LDS33/LDS46 Decorative Shroud**

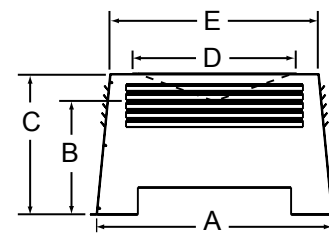
| Catalog # | A          |           | B          |           | C          |           | D          |           |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
|           | <i>in.</i> | <i>mm</i> | <i>in.</i> | <i>mm</i> | <i>in.</i> | <i>mm</i> | <i>in.</i> | <i>mm</i> |
| LDS33     | 36         | 914       | 36         | 914       | 8.5        | 216       | 11         | 279       |
| LDS46     | 48         | 1219      | 72         | 1829      | 8.5        | 216       | 11         | 279       |



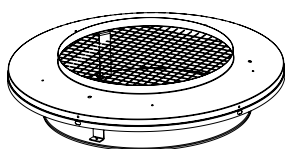
**CT-3-B**



**LDS-BV Decorative Shroud**



| Catalog # |            | A          | B          | C          | D          | E          |
|-----------|------------|------------|------------|------------|------------|------------|
|           |            | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> |
| LDS-BV    | <i>in.</i> | 26         | 12.5       | 15.5       | 22         | 23         |
|           | <i>mm</i>  | 660        | 318        | 394        | 533        | 584        |



**TR-TVK Top Vent Kit**

## **B. Accessories**

### **Fronts (Required to Complete)**

#### **Mission Hill Front**

DF-7100MH-B     Mission Hill front, classic black smooth finish

#### **Rolling Meadows Front**

DF-7100RM     Rolling Meadows Front, classic black smooth finish

DF-7100RM-NL     Rolling Meadows Front, classic black smooth finish

#### **Valley Forge Front**

DF-7100VF-B     Valley Forge front, classic black hammered finish

#### **Firescreens**

SCR-433     Firescreen

#### **Lintel Bar**

LINTEL-433     Lintel Bar

#### **Finishing Template**

TMP-433     Metal Finishing Template

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[www.quadrafire.com](http://www.quadrafire.com)

Please contact your Quadra-Fire dealer with any questions or concerns.  
For the location of your nearest Quadra-Fire dealer, please visit [www.quadrafire.com](http://www.quadrafire.com).