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.

WARNING

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

NOTICE: DO NOT discard this manual!

INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.

Model(s):
ST42A
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.

<table>
<thead>
<tr>
<th>Customer:</th>
<th>Date Installed:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot/Address</td>
<td>Location of Fireplace:</td>
</tr>
<tr>
<td>Model (circle one): ST42A</td>
<td>Installer:</td>
</tr>
<tr>
<td></td>
<td>Dealer/Distributor Phone #:</td>
</tr>
<tr>
<td></td>
<td>Serial #:</td>
</tr>
</tbody>
</table>

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

**Fireplace Install**
- Verified that the chase is insulated and sealed. (Pg. 11)
- Verified clearances to combustibles. (Pg. 10)
- Fireplace is leveled and secured. (Pg. 12)
- Protective hearth strips installed per manual requirements. (Pg. 13)
- Hearth extension size/height decided. (Pg. 28)
- Outside air kit installed. (Pg 14)

**Chimney Section 4 & 5 (Pg. 15)**
- Chimney configuration complies with diagrams.
- Chimney installed, locked and secured in place with proper clearance.
- Chimney air kit installed.
- Firestops installed.
- Attic insulation shield installed.
- Roof flashing installed.
- Termination installed.

**Shrouds Section 6 (Pg. 25)**
- Shroud is installed properly per instructions.

**Finishing Section 7 (Pg. 27)**
- Combustible materials not installed in non-combustible areas.
- Verified all clearances meet installation manual requirements.
- Mantels and wall projections comply with installation manual requirements.
- Hearth extension installed per manual requirements.

**Fireplace Setup Section 8 (Pg. 34)**
- All packaging and protective materials removed.
- Molded brick panels installed correctly.
- Grate is properly installed.
- Firescreen properly installed.
- Optional doors properly installed.
- Manual bag and all of its contents are removed from the fireplace and given to the party responsible for use and operation.

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)

---

4012-052 • Rev A • 05/06/13
1. Product Specific & Important Safety Information

A. Fireplace Certification
This fireplace system has been tested and listed in accordance with UL 127 and ULC-S610 standards by Underwriters Laboratories Inc. for installation and operation in the United States and Canada.

This fireplace may be installed in sleeping rooms. This fireplace is not approved for installation in manufactured homes. If installed with a gas log set, provisions for the National Fuel Gas Code must be met.

This fireplace has been tested and listed for use with the optional components specified in this manual. These optional components may be purchased separately and installed at a later date. An outside air kit, gas insert, gas log set or gas log-lighter should be installed at the time of fireplace installation.

Heatilator is a registered trademark of Hearth & Home Technologies.

WARNING! Risk of Fire! Hearth & Home Technologies disclaims any responsibility for, and the warranty and agency listing will be voided by the following actions.

DO NOT:
• install or operate damaged fireplace
• modify fireplace
• install other than as instructed by Hearth & Home Technologies
• operate the fireplace without fully assembling all components
• overfire
• install any component not approved by Hearth & Home Technologies
• install parts or components not Listed or approved

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.

B. Non-Combustible Materials
• Materials which will not ignite and burn, composed of any combination of the following:
  - Steel
  - Iron
  - Brick
  - Tile
  - Concrete
  - Slate
  - Glass
  - Plasters
• Materials reported as passing ASTM E 136, Standard Test Method for Behavior of Metals, in a Vertical Tube Furnace at 750° C

C. Combustible Materials
• Materials 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

WARNING: This product and the fuels used to operate this product (wood and wood pellets), 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.

This fireplace system has been tested and listed in accordance with UL 127 and ULC-S610 standards by Underwriters Laboratories Inc. for installation and operation in the United States and Canada.

This fireplace may be installed in sleeping rooms. This fireplace is not approved for installation in manufactured homes. If installed with a gas log set, provisions for the National Fuel Gas Code must be met.

This fireplace has been tested and listed for use with the optional components specified in this manual. These optional components may be purchased separately and installed at a later date. An outside air kit, gas insert, gas log set or gas log-lighter should be installed at the time of fireplace installation.

Heatilator is a registered trademark of Hearth & Home Technologies.
2 Getting Started

A. Typical Fireplace System

Additional lateral support for chimney above roof (or enclosed in chase) if needed

Non-combustible roof flashing maintains minimum clearance around chimney

Support straps on rafter support chimney (not shown)

Ceiling firestop on floor of attic

Chimney system

Combustible framing/header on top of V-shaped standoffs

Chimney Air Kit Required in Canada. Outlet must be no less than 4 ft. (1.322 m) off ground level.

Outside combustion air

Termination cap

Storm Collar

Chimney penetrates roof preferably without affecting roof rafters

Offset & Return (with hanger straps)

Attic insulation shield (not shown) must be used here to keep insulation away from chimney if attic is insulated

Framing headed off in ceiling joists

Enclosed space above and around fireplace

Mantel and surround

Decorative facing and trim

Hearth extension

Protective metal hearth strip(s)

Figure 2.1 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.
- **Before installing**, determine the following:
  - Where the fireplace is to be installed.
  - The vent system configuration to be used.
  - Gas supply piping.
  - Electrical wiring.
  - Framing and finishing details.
  - Whether optional accessories - devices such as a fan, wall switch or remote control - are desired.

1. Selecting Fireplace Locations

This fireplace may be used as a room divider. See Figure 2.2.

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

Outside air is recommended for combustion. This fireplace comes equipped with an outside air inlet to feed combustion air from outside the home, along with an outside air termination cap; the 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 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
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.
- Installing the fireplace in a basement is not recommended.
- 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 4 and 5.

- 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](image-url)
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 Heatilator fireplace system requirements consist of the following:

- **Fireplace**
  - Refractory (included with fireplace)
  - Firescreen (included with fireplace)
  - Grate (included with fireplace)
  - Hearth Extension (required, sold separately)
- **Outside Air System**
  - Air Inlet Hood (included with fireplace)
  - Flex (required, sold separately)
- **Chimney System**
  - Attic Insulation Shield (included with fireplace)
  - Chimney air kit (required in Canada, sold separately)
  - Chimney termination cap (required, sold separately)
- **Non-combustible finish material**
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.

### Minimum Clearances to Combustibles

<table>
<thead>
<tr>
<th>WITHIN ENCLOSURE AREA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fireplace to sidewall</td>
<td>1/2 in. (13 mm)</td>
</tr>
<tr>
<td>Top standoffs to header</td>
<td>0 in. (0 mm)</td>
</tr>
<tr>
<td>Door opening to sidewall</td>
<td>12 in. (305 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MANTEL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mantel minimum height</td>
<td>12 in. (305 mm) above opening</td>
</tr>
<tr>
<td>Maximum mantel depth</td>
<td>12 in. (305 mm)</td>
</tr>
</tbody>
</table>

**Note:** Chimney air kit and 11-10 in./279-254 mm adapter are not shown, but are required in Canada.

![Figure 3.2 Clearances to Combustible Materials](image-url)
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 3.3.) 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 fiberglass 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!** 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.

Examples of chase applications are shown in Figure 3.4.
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 7 1/2 in. (192 mm), if you want a higher raised hearth the fireplace must be placed on a platform.

**WARNING! Risk of Fire!** Comply with all minimum clearances specified.
- A minimum 1/2 in. (13 mm) air clearance must be maintained at 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.

Figure 3.5 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.

**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 1/2 in. air clearance at the sides of the fireplace.

The fireplace should be positioned so the face of the noncombustible material on the fireplace will be flush with the face of the drywall on the walls.

Level the fireplace and shim as necessary.

**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.
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 four 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 3.6.
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 3.6. See Section 7 for hearth extension instructions.

---

**Figure 3.6 Position the Protective Metal Hearth Strips**

---

**Figure 3.7 Protect the Front of an Elevated Platform**
G. Outside Air Kit

When you install the outside air kit, 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 3.8 and 3.9 when placing the outside air inlet hood.

Installation

- Remove the cover plate from the side of the fireplace and replace it with outside air plate assembly using existing screws.
- Mark and cut out a 4 1/2 in. (114 mm) diameter hole in the building side for air entry. This hole should allow for some framing (two sides) so the outside air inlet hood may be nailed into position, flush with building’s outside.
- Secure flexible duct (not supplied) to the plate assembly.
- Feed duct through hole to the outside, fasten to the outside air inlet hood.
- Fasten outside air inlet hood assembly to the structure with screws.
- 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 Cuts/Abrasions.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

- **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 Fire or Asphyxiation!**

Outlet blocked by snow, leaves, etc.
Garage or combustible liquids storage
Outlet placed higher than 3 ft below the termination cap

- Use UL181 Class 1 or Class 0 rigid or flexible ducting.
- Install with short run or mainly straight duct, except small dip for cold air trap which will help prevent flow of cold air.
- Secure flex duct with screws or wire ties.
4 Chimney and Termination Requirements

A. Chimney Requirements
Vertical distances are measured from the base of the fireplace as shown in Figure 4.1.

Table 4.1 Chimney Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>ft</th>
<th>meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Minimum overall straight height</td>
<td>14.0</td>
<td>4.27</td>
</tr>
<tr>
<td>b. Minimum height with offset/return</td>
<td>16.5</td>
<td>5.03</td>
</tr>
<tr>
<td>c. Maximum height</td>
<td>90.0</td>
<td>27.43</td>
</tr>
<tr>
<td>d. Maximum chimney length between an offset and return</td>
<td>20.0</td>
<td>6.1</td>
</tr>
<tr>
<td>e. Maximum distance between chimney stabilizers</td>
<td>35.0</td>
<td>10.67</td>
</tr>
<tr>
<td>f. Double offset/return minimum height</td>
<td>22.0</td>
<td>6.71</td>
</tr>
<tr>
<td>g. Maximum unsupported chimney length between the offset and return</td>
<td>6.0</td>
<td>1.83</td>
</tr>
<tr>
<td>h. Maximum unsupported chimney height above the fireplace</td>
<td>35.0</td>
<td>10.67</td>
</tr>
<tr>
<td>i. Maximum unsupported chimney above roof</td>
<td>6.0</td>
<td>1.83</td>
</tr>
</tbody>
</table>

**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.

Table 4.2 Chimney Component Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>US</th>
<th>Canada ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chimney Stabilizer</td>
<td>SL11</td>
<td>SL4</td>
</tr>
<tr>
<td></td>
<td>SL1130</td>
<td>SL430</td>
</tr>
<tr>
<td>Offsets/Returns</td>
<td>SL1106</td>
<td>SL406</td>
</tr>
<tr>
<td></td>
<td>SL1112</td>
<td>SL412</td>
</tr>
<tr>
<td></td>
<td>SL1118</td>
<td>SL418</td>
</tr>
<tr>
<td></td>
<td>SL1136</td>
<td>SL436</td>
</tr>
<tr>
<td></td>
<td>SL1148</td>
<td>SL448</td>
</tr>
<tr>
<td>n/a</td>
<td>SL10</td>
<td>SLA10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height of Chimney Components</th>
<th>in.</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chimney Stabilizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL11</td>
<td>4-3/4</td>
<td>121</td>
</tr>
<tr>
<td>Offsets/Returns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL1106</td>
<td>4-3/4</td>
<td>121</td>
</tr>
<tr>
<td>SL1112</td>
<td>10-3/4</td>
<td>273</td>
</tr>
<tr>
<td>SL1118</td>
<td>16-3/4</td>
<td>425</td>
</tr>
<tr>
<td>SL1136</td>
<td>34-3/4</td>
<td>883</td>
</tr>
<tr>
<td>SL1148</td>
<td>46-3/4</td>
<td>1187</td>
</tr>
<tr>
<td>n/a</td>
<td>16-3/4</td>
<td>425</td>
</tr>
</tbody>
</table>

* Dimensions reflect effective height.
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 4.2.
- Find the appropriate A dimension listed in Table 4.3. The B dimension coinciding with the A dimension measurement in Table 4.3 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.

![Figure 4.2 Chimney Offset/Return](image)

**Example:**

Your “A” dimension from Figure 4.2 is 14 1/2 in. (368 mm). Using Table 4.3 the dimension closest to, but not less than 14 1/2 in. (368 mm) is 15 3/4 in. (400 mm) using a 30° offset/return.

You determined from the table that you would need 36-5/8 in. (930 mm) (Dimension “B”) between the offset and return.

The chimney component that best fits your application is two SL1112s.

### Table 4.3 Offset Dimensions

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>SL1106 mm</th>
<th>SL1112 mm</th>
<th>SL1118 mm</th>
<th>SL1136 mm</th>
<th>SL1148 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
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</tr>
<tr>
<td>-------</td>
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<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>4 7/8</td>
<td>124</td>
<td>17 7/8</td>
<td>454</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7 1/4</td>
<td>184</td>
<td>22</td>
<td>559</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9 3/4</td>
<td>248</td>
<td>26 1/8</td>
<td>664</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10 1/4</td>
<td>260</td>
<td>27 1/4</td>
<td>692</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>12 3/4</td>
<td>324</td>
<td>31 3/8</td>
<td>797</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>13 1/4</td>
<td>337</td>
<td>32 3/8</td>
<td>822</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>15 3/4</td>
<td>400</td>
<td>36 5/8</td>
<td>930</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>18 1/8</td>
<td>460</td>
<td>40 3/4</td>
<td>1035</td>
<td>1</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>18 3/4</td>
<td>476</td>
<td>41 3/4</td>
<td>1060</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>21 3/4</td>
<td>552</td>
<td>47</td>
<td>1194</td>
<td>-</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>22 1/4</td>
<td>565</td>
<td>48</td>
<td>1219</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>24 3/4</td>
<td>629</td>
<td>52 1/8</td>
<td>1324</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>27 3/4</td>
<td>705</td>
<td>57 3/8</td>
<td>1457</td>
<td>-</td>
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<tr>
<td>28 1/4</td>
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<td>-</td>
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</tr>
<tr>
<td>30 3/4</td>
<td>781</td>
<td>62 1/2</td>
<td>1588</td>
<td>1</td>
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<td>-</td>
</tr>
<tr>
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<td>857</td>
<td>67 3/4</td>
<td>1721</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>36 3/4</td>
<td>933</td>
<td>73</td>
<td>1854</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>39 3/4</td>
<td>1010</td>
<td>78 1/8</td>
<td>1984</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>41 1/8</td>
<td>1045</td>
<td>82 3/8</td>
<td>2092</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>45 3/4</td>
<td>1162</td>
<td>88 1/2</td>
<td>2248</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>48 1/8</td>
<td>1222</td>
<td>92 3/4</td>
<td>2356</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>51 3/4</td>
<td>1314</td>
<td>98 7/8</td>
<td>2511</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Note:** SL400 series pipe available for Canada ONLY.

Proper assembly of air cooled chimney parts results in an overlap of chimney joints of 1-1/4 in. (32 mm). Effective length is built into this table.
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).
- The distance required between caps is shown below.

**Figure 4.3 Multiple Chimney Locations**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in. (minimum) up to 20 in.</td>
<td>18 in. minimum</td>
</tr>
<tr>
<td>152 mm/508 mm</td>
<td>457 mm</td>
</tr>
<tr>
<td>20 in. and over</td>
<td>0 in. minimum</td>
</tr>
</tbody>
</table>

* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

** In a staggered installation with both gas and wood terminations, the wood termination cap must be higher than the gas termination cap.
5 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.

![Figure 5.1 Typical Chimney System - Guidelines for Chimney System Installation](image-url)
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 5.2.

**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.
- 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).

![Figure 5.2 Assembling Chimney Sections](image)

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

C. Install Chimney Air Kit
- Required in Canada.
- Follow instructions included with accessory.
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 5.3.

- 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.

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 5.4.
- 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.

**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.
- Combustible material may come in contact with the attic insulation shield as long as the required clearances are maintained to the chimney pipe.

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.
G. Roof Penetration
- Refer to Figure 5.8.
- 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 17 in. x 17 in. (432 mm x 432 mm) opening required.
- Measure opening on the horizontal; actual length may be larger depending on roof pitch.
- Cut out and frame opening.

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.

H. Install Chase/Chase Top
- You MUST use a chase top in a chase installation. Chase tops may be field constructed.
- Include a turndown 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.
I. 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).

J. 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.

Note: 400 Series Termination Caps available Canada ONLY.
Figure 5.13 Installing a TCT1175 Terra Cotta Cap

Place waterproof sealer under each flange of the termination cap and on top of each screw to help prevent leaks.

The last section of pipe must stop between 2 in. (51 mm) above top of chase and 4-3/4 in. (121 mm) below top of chase.

Remove 2 screws from front & back to lift the top off.

2 in. (51 mm)
Minimum Height

Caulk gaps between storm collar & pipe, and storm collar & chase top.

3 clip brackets. Slip over chase collar and attach with screws provided.

Assemble storm collar around extended termination cap once cap is installed.

The last section of pipe must stop between 2 in. (51 mm) above the top of the chase and 4 3/4 in. (121 mm) below the top of the chase.

CT-11A-B

Figure 5.14 Installing a DTO134/DTO146/DTS134/DTS146 Cap
6 Shrouds

**WARNING! Risk of Fire!** Shrouds must be constructed as specified. Improper construction may overheat chase top.

Shrouds may be field constructed where permitted by regional building codes.

**NOTICE:** Some regional codes require an agency-Listed shroud. Consult your local building officials.

The shrouds must be constructed from minimum .018 in. (26 ga) thick aluminized steel.

Some shrouds require a radiation shield. Use where specified.

### A. Radiation Shield

Radiation shield must be constructed of minimum 26 ga thick sheet metal.

![Figure 6.1 Radiation Shield](image)

### B. Field Constructed Shrouds

The following field constructed shroud designs have been tested for HHT fireplace systems and termination caps.

### 1. Open Top Shroud

TR11/TR11T TV (top vented) caps require radiation shield.

![Figure 6.2 Open Top Shroud Dimensions](image)

<table>
<thead>
<tr>
<th>TR11/1T</th>
<th>TR11/1T TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Base Dims.</td>
<td></td>
</tr>
<tr>
<td><em>in</em></td>
<td>32 x 32</td>
</tr>
<tr>
<td><em>mm</em></td>
<td>813 x 813</td>
</tr>
<tr>
<td>Radiation Shield Required</td>
<td>Radiation Shield Not Required</td>
</tr>
<tr>
<td>Min. Top Dims.</td>
<td></td>
</tr>
<tr>
<td><em>in</em></td>
<td>29 x 29</td>
</tr>
<tr>
<td><em>mm</em></td>
<td>737 x 737</td>
</tr>
<tr>
<td>Min. Opening Width</td>
<td></td>
</tr>
<tr>
<td><em>in</em></td>
<td>26 x 26</td>
</tr>
<tr>
<td><em>mm</em></td>
<td>660 x 660</td>
</tr>
</tbody>
</table>

TR11/TR11T caps require radiation shield unless installed partially above the shroud. The TR cap must be raised to the minimum dimensions (or greater) above the shroud. Refer to Figure 6.3.

![Figure 6.3 Shroud & TR Series cap with no Radiation Shield](image)
2. Mailbox Style Shroud
   Radiation shield required

   Figure 6.4 Mailbox Style Shroud Dimensions

<table>
<thead>
<tr>
<th>TR11/11T</th>
<th>TR11/11T TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Base Dims.</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>34 x 34</td>
<td>864 x 864</td>
</tr>
<tr>
<td>28 x 30</td>
<td>711 x 762</td>
</tr>
<tr>
<td>Min. Height Above Bottom of Termination Cap</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>28-1/4</td>
<td>718</td>
</tr>
<tr>
<td>27-1/2</td>
<td>698</td>
</tr>
<tr>
<td>Min. Opening Width</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>28</td>
<td>711</td>
</tr>
<tr>
<td>22</td>
<td>559</td>
</tr>
<tr>
<td>Min. Opening Height</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>18-1/4</td>
<td>464</td>
</tr>
<tr>
<td>17-1/2</td>
<td>445</td>
</tr>
</tbody>
</table>

3. Roofed Style Shroud
   Radiation shield required

   Figure 6.5 Roofed Style Shroud Dimensions

<table>
<thead>
<tr>
<th>TR11/11T</th>
<th>TR11/11T TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Base Dims.</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>34 x 34</td>
<td>864 x 864</td>
</tr>
<tr>
<td>28 x 30</td>
<td>711 x 762</td>
</tr>
<tr>
<td>Min. Height Above Bottom of Termination Cap</td>
<td></td>
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<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>23</td>
<td>584</td>
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<tr>
<td>Min. Opening Width</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>28</td>
<td>711</td>
</tr>
<tr>
<td>Min. Opening Height</td>
<td></td>
</tr>
<tr>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>12</td>
<td>305</td>
</tr>
</tbody>
</table>
7 Finishing

A. Finishing Material
Refer to Sections 1.B. and Sections 1.C. for combustible/non-combustible materials. Refer to Figure 7.1 for non-combustible zone.

**WARNING! Risk of Fire! You must maintain clearances.**

- Do NOT cover metal fireplace front with combustible materials.
- Install combustible materials only to specified clearances on top front and side edges.
- Do not place header or combustible framing below top of standoffs.
- Complete framing and apply drywall over framing.
- Drywall can butt up to metal face and columns on fireplace.
- Only non-combustible materials may be used to cover the metal fireplace front.
- A bead of 300-deg F minimum non-combustible sealant must be used to close off any gaps at the top and sides between the fireplace and drywall to prevent cold air leaks.

![Figure 7.1 Non-combustible Facing](image-url)

These metal surfaces may be covered with non-combustible material.

High temperature sealant around edge of fireplace and drywall.

![Figure 7.2 Decorative Facing](image-url)

Finished combustible wall

Combustible material

Non-combustible decorative facing (up to full brick depth)

High temperature (300°F min.) continuous, non-combustible sealant

Tile, stone or other non-combustible material

HX4 Hearth Extension or equivalent insulation

Metal strips are placed 2 in. (51 mm) under the front of the fireplace and must extend beyond the front and sides of fireplace opening by 2 in. (51 mm)

Floor constructed of wood or other combustible material

Flat 2 x 4 stud wall

2 x 4 header, flush with front of stand-offs
B. Hearth Extension, Building and Finishing

**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 7.3 for minimum dimensions.
- This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 1.03.
- 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.

**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.

**Table 7.1**

<table>
<thead>
<tr>
<th>Material</th>
<th>k per inch thick</th>
<th>r per inch thick</th>
<th>Minimum thickness required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hearth &amp; Home HX3, HX4</td>
<td>0.49</td>
<td>2.06</td>
<td>1/2 in.</td>
</tr>
<tr>
<td>USG Micore 300™</td>
<td>0.49</td>
<td>2.06</td>
<td>1/2 in.</td>
</tr>
<tr>
<td>USG Durock™ Cement Board</td>
<td>1.92</td>
<td>0.52</td>
<td>2 in.</td>
</tr>
<tr>
<td>Cement Mortar</td>
<td>5.0</td>
<td>0.20</td>
<td>5 1/8 in.</td>
</tr>
<tr>
<td>Common Brick</td>
<td>5.0</td>
<td>0.20</td>
<td>5 1/8 in.</td>
</tr>
<tr>
<td>Ceramic Tile</td>
<td>12.50</td>
<td>0.08</td>
<td>12 1/4 in.</td>
</tr>
<tr>
<td>Armstrong™ Privacy Guard Plus</td>
<td>0.46</td>
<td>2.18</td>
<td>1/2 in.</td>
</tr>
<tr>
<td>Marble</td>
<td>14.3-20.0</td>
<td>0.07-0.05</td>
<td>14 5/8 in. - 20 3/8 in.</td>
</tr>
</tbody>
</table>

**Table 7.2**

<table>
<thead>
<tr>
<th>Material</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>HX4 in.</td>
<td>66</td>
<td>20</td>
<td>12</td>
</tr>
<tr>
<td>HX4 mm</td>
<td>1676</td>
<td>508</td>
<td>305</td>
</tr>
</tbody>
</table>

**Figure 7.3** Hearth Extension Dimensions
1. **Fireplace Installed Flush on the Floor and Hearth Extension Raised to Bottom of Firebox Opening**

Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 12 in. (305 mm) to each side of the fuel opening is required.

The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and placed on HX3(s), HX4(s), or equivalent material. See Figures 7.4 and 7.5.

**When creating the platform, allow for the thickness of the non-combustible finishing materials.**

Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.

---

**Figure 7.4 Hearth Extension Construction**

Note: Maximum height from floor under fireplace to top of finished hearth extension is 5 7/8 in.

- **Bottom of fireplace opening**
- **Continuous, non-combustible sealant**
- **Tile, stone or other non-combustible material**
- **1/2 in. Micore or equivalent insulation**
- **Floor constructed of wood or other combustible material**

**Figure 7.5 Raised Platform Hearth Extension Detail**

Note: The bottom of the fireplace opening is 5 7/8 in. (149 mm) above the bottom of the fireplace. Finished hearth must NOT extend above this level.

- **Noncombustible Finishing Material**
- **20 in. Min. Hearth Extension**
- **Noncombustible Framing Material**
- **1/2 in. Micore or equivalent insulation**
- **Protective Metal Hearth Strips**
- **Floor**

**Figure 7.6 Raised Platform Hearth Extension-Framing**

- **Noncombustible Finishing Materials**
- **HX4 or equivalent**

**Figure 7.7 Raised Platform Hearth Extension-Finishing**
2. Raised Hearth Extension and Raised Fireplace

Non-combustible flooring a minimum of 20 in. (508 mm) in front of and 12 in. (305 mm) to each side of the fuel opening is required.

The hearth framing must be constructed of non-combustible materials (such as metal framing or equivalent material) and placed on HX3(s), HX4(s), or equivalent material. See Figure 7.8.

When creating the platform, allow for the thickness of the non-combustible finishing materials.

Seal gaps between the hearth extension and the front of the fireplace with a bead of non-combustible sealant or grout.

---

Note: The bottom of the fireplace opening is 5 7/8 in. (149 mm) above the bottom of the fireplace. Finished hearth must NOT extend above this level.

Platform must be built to raise the bottom of the fireplace opening to the level of the desired hearth height.

---

Figure 7.8 Raised Hearth Extension and Fireplace Framing Materials
C. Non-Combustible Sealant Material
After completing the framing and applying the facing materials over the framing, a bead of noncombustible sealant must be used to close off any gaps at the top and sides between the fireplace and hearth.

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.
D. Mantel and Wall Projections

The combustible mantel may have a maximum depth of 12 in. (305 mm) positioned 12 in. (305mm) above the fireplace opening. Combustible trim pieces that project no more than 1 1/2 in. (38 mm) from the face of the fireplace can be placed no closer than 6 in. (152 mm) from the top of the opening. 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

WARNING! Risk of Fire!
- You must seal around the finishing material to fireplace.

WARNING!
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.
E. Sidewalls/Surrounds

- Locate adjacent combustible sidewalls a minimum of 12 in. (305 mm) from fireplace opening.
- Mantle leg, surround, stub wall, whether combustible or non-combustible, may be constructed as shown below.

![Diagram showing gridlines at 1 in. scale with dimensions labeled.](image_url)

**Figure 7.11** Mantel Leg, Surround or Wall Projection (acceptable on both sides of opening)
8 Fireplace Setup

A. Gas Log/Lighter Provision

**WARNING! Fire and/or Asphyxiation Risk!** Use with solid wood fuel or decorative gas appliance only. Gas fire generates fumes.

- Damper must be locked fully open when gas logs are installed

A certified gas log lighter or decorative gas log set can be installed in this fireplace.

**Vented Gas Logs**

- Maximum input is 100,000 BTU/hr.
- Decorative gas appliance must be certified to ANSI Z21.60/CSA 2.26 “Standard for Decorative Gas Appliances for Installation in Vented Fireplaces”.
- Must be installed in accordance with the National Fuel Gas Code, ANSI Z223.1 and Natural Gas Installation Code, CAN/CGA-B149.1-M95 or the Propane Installation Code, CAN/CGA-B149.2-M95.
- A gas log set must incorporate a gas shutoff.
- Gas Log set requires the damper to be locked fully open.
- A listed automatic damper system with safety interlock may be used in this fireplace with only compatible, listed gas log sets. See damper system manufacturer’s instructions.
- Knockouts are provided on both sides of the fireplace and in refractories for 1/2 in. (13 mm) iron pipe.
- Seal refractory around pipe with fireplace mortar or a non-combustible sealant.

**Unvented Gas Logs**

**CAUTION!** If an unvented gas appliance is installed in the fireplace, the gas appliance must only be operated with the fireplace glass door fully open (if included). Only unvented gas log sets which have been found to comply with the standard for unvented room heaters, ANSI Z211.11.2, are to be installed in this fireplace. If an unvented gas appliance is installed it must incorporate an automatic shutoff device, and must be installed in accordance with the National Fuel Gas Code Z223.1, Latest edition.

**WARNING! Do Not** operate an unvented gas log set in this fireplace with the chimney removed.
9 Reference Materials

A. Chimney Components

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
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<tbody>
<tr>
<td>CAK5A CAK5A</td>
<td>Chimney Air Kit</td>
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<tr>
<td>ID4/ID6 ID4</td>
<td>Insulated Duct/Outside Air</td>
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<tr>
<td>UD4/UD6 UD4</td>
<td>Uninsulated Duct/Outside Air</td>
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<tr>
<td>SLA10</td>
<td>11-10 in. (279-254mm) Adapter</td>
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<tr>
<td>SL1106 SL406</td>
<td>Chimney Section - 6 in. (152 mm) long</td>
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<tr>
<td>SL1112 SL412</td>
<td>Chimney Section - 12 in. (305 mm) long</td>
</tr>
<tr>
<td>SL1118 SL418</td>
<td>Chimney Section - 18 in. (457 mm) long</td>
</tr>
<tr>
<td>SL1136 SL436</td>
<td>Chimney Section - 36 in. (914 mm) long</td>
</tr>
<tr>
<td>SL1148 SL448</td>
<td>Chimney Section - 48 in. (1219 mm) long</td>
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<tr>
<td>SL11 SL4</td>
<td>Chimney Stabilizer</td>
</tr>
<tr>
<td>SL1130 SL430</td>
<td>Chimney Offset/Return - 30 deg</td>
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<tr>
<td>SL538 FS538</td>
<td>Ceiling Firestop - Straight</td>
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<tr>
<td>SL540 FS540</td>
<td>Ceiling Firestop - 30 deg</td>
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<tr>
<td>AS10 AS10</td>
<td>Straight Attic Insulation Shield, 24 in. (610 mm)</td>
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<tr>
<td>JB577 JB577</td>
<td>Chimney Joint Band</td>
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<tr>
<td>CB576 CB576</td>
<td>Chimney Bracket</td>
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<tr>
<td>RF570 RF570</td>
<td>Roof Flashing - Flat to 6/12 Pitch</td>
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<td>RF571 RF571</td>
<td>Roof Flashing - 6/12 to 12/12 Pitch</td>
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<td>TR11 TR444</td>
<td>Round Termination Cap</td>
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<td>Round Telescoping Termination Cap</td>
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<td>Terra Cotta Termination Cap</td>
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<td>DTS146 n/a</td>
<td>Tall Square Decorative Cap</td>
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<td>LDS33 LDS33</td>
<td>Decorative Shroud - 3 ft x 3 ft (.91 m x .91 m)</td>
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<td>LDS46 LDS46</td>
<td>Decorative Shroud - 4 ft x 6 ft (1.22 m x 1.83 m)</td>
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<tr>
<td>LDS-BV LDS-BV</td>
<td>Decorative Shroud - 26 in. x 26 in. (660 mm x 660 mm)</td>
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<td>CT-11A-B n/a</td>
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<td>DT-Series</td>
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<tr>
<th>Catalog #</th>
<th>A</th>
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<tbody>
<tr>
<td>US</td>
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<td>SL1136 SL436</td>
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</tr>
<tr>
<td>SL1148 SL448</td>
<td>48</td>
<td>1219</td>
</tr>
</tbody>
</table>

A = Actual Length
B = Effective Length (length of chimney part after it has been snapped to another)
AS10 Straight Attic Insulation Shield

- Diameter: 17 in. (432 mm)
- Height: 24 in. (610 mm)

CB576 Chimney Bracket

- Inside Diameter
  - SL1100: 11 in. (279 mm)
  - SL400: 10 in. (254 mm)

- Outside Diameter
  - 13 in. (330 mm)

SL1130/SL430 Offset/Return

Assembled
- Diameter: 17 in. (432 mm)
- Height: 24 in. (610 mm)

AS10 Straight Attic Insulation Shield

JB577 Chimney Joint Band

- 13 in. (330 mm)
- 2 in. (51 mm)

RF570 Roof Flashing

- 15-1/4 in. (387 mm)
- 29 in. (737 mm)
- 25-1/4 in. (641 mm)
- 39-7/8 in. (1013 mm)
- 28 in. (711 mm)

TR11/TR444 - Round Termination Cap

- 15-3/4 in. (400 mm)

Catalog # | A | B
--- | --- | ---
FS538 | 0-deg. | 17 in. | 432 mm
FS540 | 30-deg. | 26 in. | 660 mm

RF571 Roof Flashing

- 15-1/4 in. (387 mm)
- 39-7/8 in. (1013 mm)
- 28 in. (711 mm)

CB576 Chimney Bracket

- 13 in. (330 mm)
B. Optional Components

ID4 Insulated Duct  4 in. (102 mm) i.d.

ID6 Insulated Duct  6 in. (152 mm) i.d.

UD4/6 Uninsulated Duct

6 in. (152.4 mm) i.d.

HX4 Hearth Extension

20 in. (508 mm)

1/2 in. (13 mm)

ID6 Insulated Duct

42 in. (1067 mm)

4 in. (102 mm) i.d.

UD4/6 Uninsulated Duct

6 in. (152 mm) i.d.

DM1242 Bi-fold doors with black trim
DM1242S Bi-fold doors with stainless steel trim

LDSCPM - Corner Post Kit (for custom sizes)

See your Heatilator dealer for a complete list of optional components.