Installation Manual
Installation and Fireplace Setup

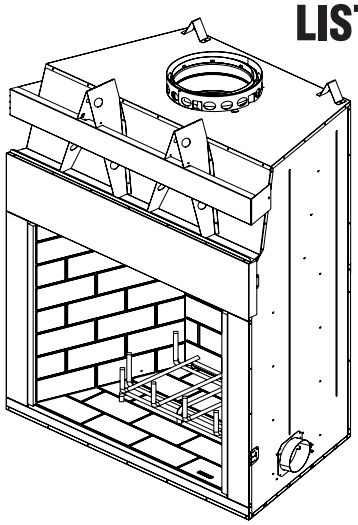
INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.

*NOTICE: **DO NOT** discard this manual!*

outdoor lifestyles
by hearth & home technologies®

Model(s):
ODCASTLEWD-42-C

c UL us LISTED



WOODBURNING FIREPLACE

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

hearthED FACTORY TRAINING Fuel Your Fire

NFI NATIONAL FIREPLACE INSTITUTE® A CERTIFICATION AGENCY

⚠ 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).

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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Note: An arrow ▶ found in the text signifies change in content.

ATTENTION INSTALLER:

Follow this Standard Work Checklist

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

Customer: _____
Lot/Address _____
_____
Model (circle one): ODCASTLEWD-42-C

Date Installed: _____
Location of Fireplace: _____
Installer: _____
Dealer/Distributor Phone # _____
Serial #: _____

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

Fireplace Install	**YES**	**IF NO, WHY?**
Verified that the chase is insulated and sealed. (Pg. 11)	☐	
Verified clearances to combustibles. (Pg. 10)	☐	
Fireplace is leveled and secured. (Pg. 14)	☐	
Protective hearth strips installed per manual requirements. (Pg. 14)	☐	
Hearth extension size/height decided. (Pg. 29)	☐	
Outside air kit installed. (Pg. 15)	☐	
Chimney Section 4 & 5 (Pg. 16)		
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. 26)		
Shroud is installed properly per instructions.	☐	
Finishing Section 7 (Pg. 28)		
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. 35)		
All packaging and protective materials removed.	☐	
Molded brick panels installed correctly.	☐	
Grate is properly installed.	☐	
Firescreen installed properly.	☐	
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)

4070-982 • Rev A • 8-15-25

1 Product Specific & Important Safety Information

A. Fireplace Certification

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

This fireplace may be installed in sleeping rooms. This fireplace is not approved for manufactured housing. 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. Installation of an outside air kit will require significant reconstruction and is best if 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.

⚠ 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.

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

2 Getting Started

A. Typical Fireplace System

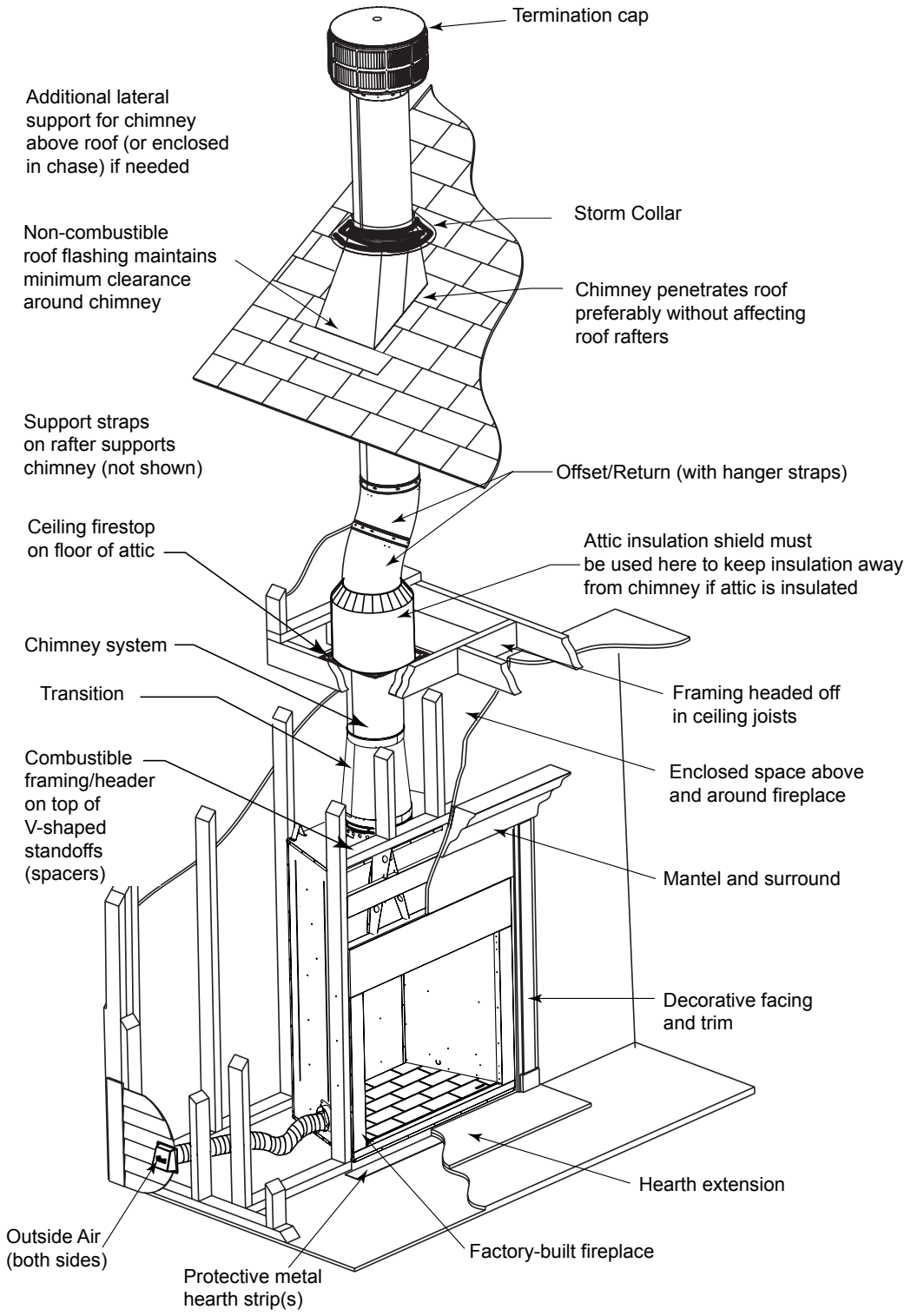


Figure 2.1 Typical Fireplace System

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, installed along a wall, across a corner or used in an exterior chase. See Figure 2.2.

Locating the fireplace in a basement is not recommended. Locating near frequently opened doors, central heat outlets or returns, or other locations of considerable air movement can affect the performance.

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).*

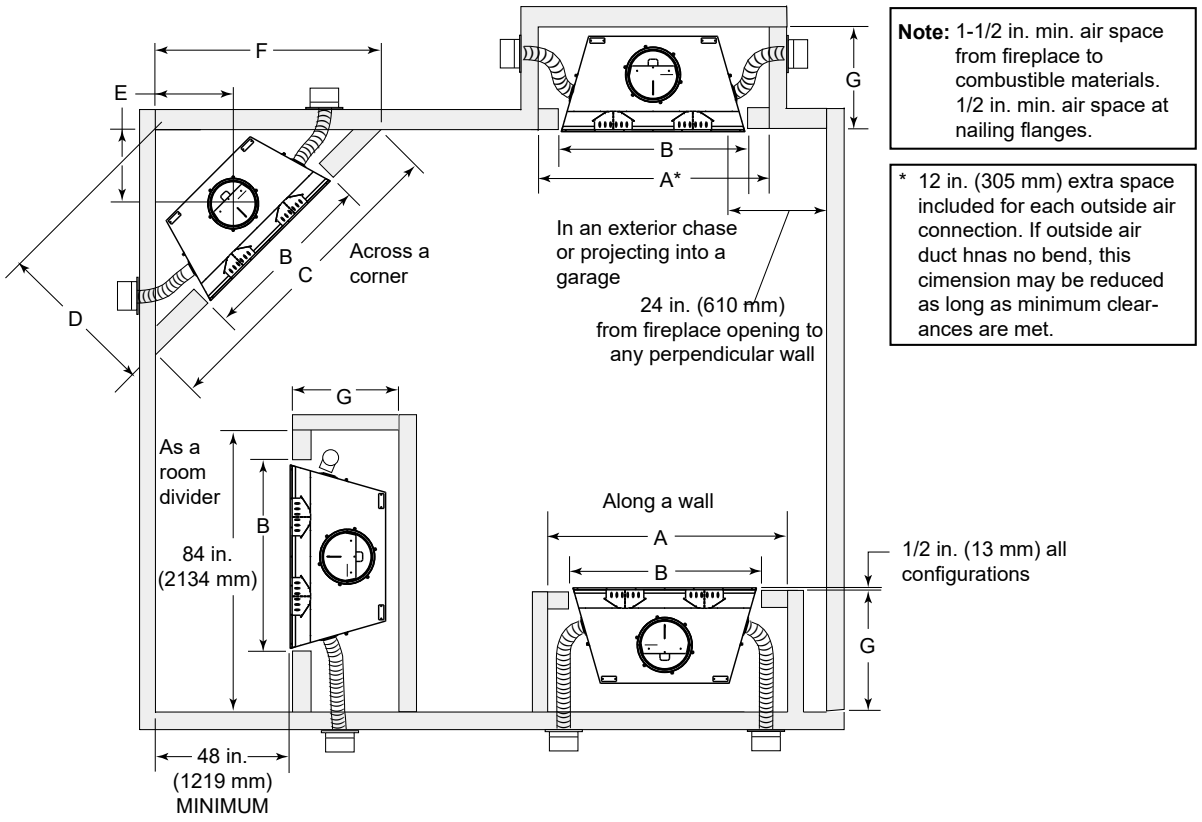
NOTICE:

- *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 1-1/2 in. air clearance at the back and a minimum 1-1/2 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.



Model #		A	B	C	D	E	F	G
ODCASTLE-42	*in.*	77-7/8	53-7/8	95-1/4	47-5/8	22-1/2	67-3/8	28-1/2
	mm	1978	1368	2419	1210	572	1711	724

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 Section 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.

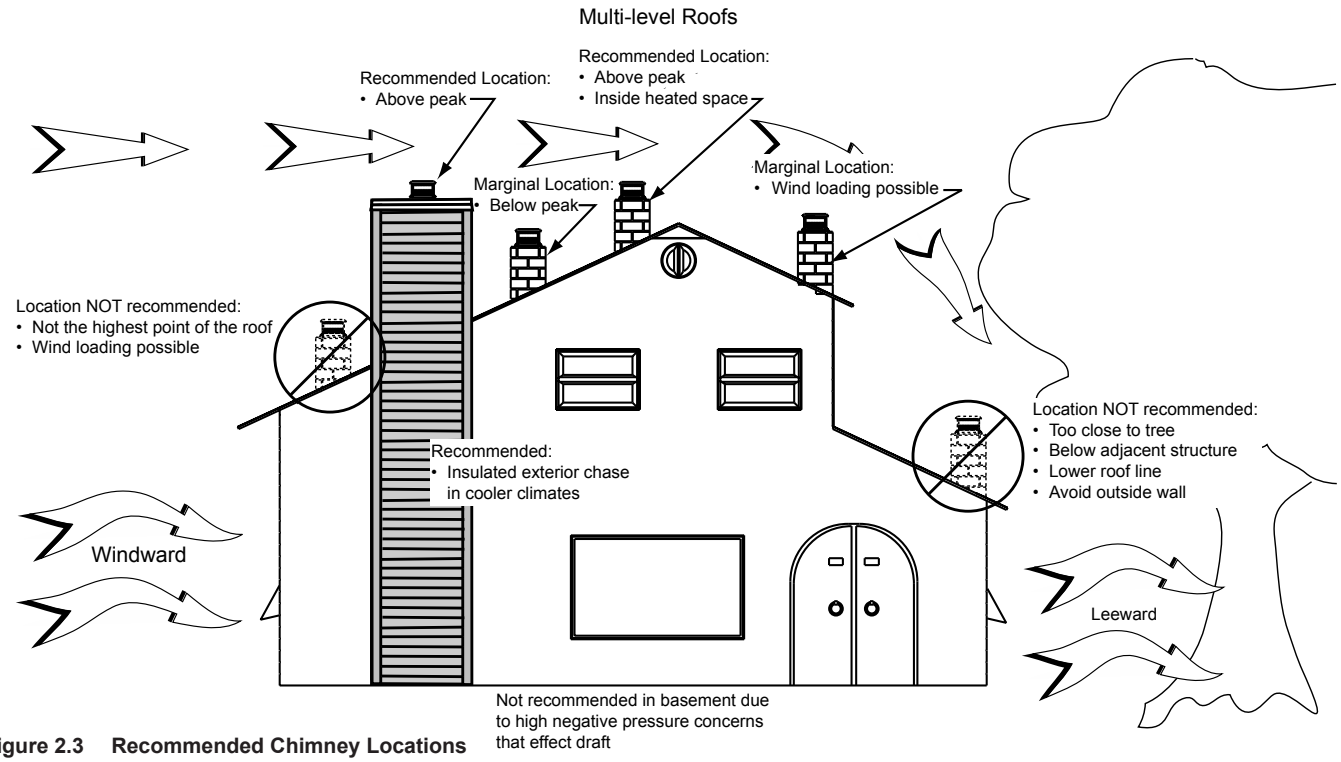


Figure 2.3 Recommended Chimney Locations

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

Fireplace system requirements consist of the following:

- Fireplace
  - Refractory (required, sold separately)
    - WDR3842-T-NG Refr. Trad. Natural Gray
    - WDR3842-T-AV Refr. Trad. Antler Velvet
    - WDR3842-T-BK Refr. Trad. Black Onyx
    - WDR3842-T-BR Refr. Trad. Masonry Brown
    - WDR3842-H-NG Refr. Herr. Natural Gray
    - WDR3842-H-AV Refr. Herr. Antler Velvet
    - WDR3842-H-BK Refr. Herr. Black Onyx
    - WDR3842-H-BR Refr. Herr. Masonry Brown
  - Firescreen (included with fireplace)
  - Hearth Extension (required, sold separately)
  - Grate (included with fireplace)
- Outside Air System
  - Air Inlet Hood x2 (included with fireplace)
  - Flex (required, sold separately
- Chimney System
  - Attic insulation shield (included with fireplace)
  - Chimney termination cap (required, sold separately)
- Non-combustible finish material

3 Framing and Clearances

A. Appliance Dimensions/Weight

Appliance Weight Table

Model	Pounds
ODCASTLEWD-42-C	340

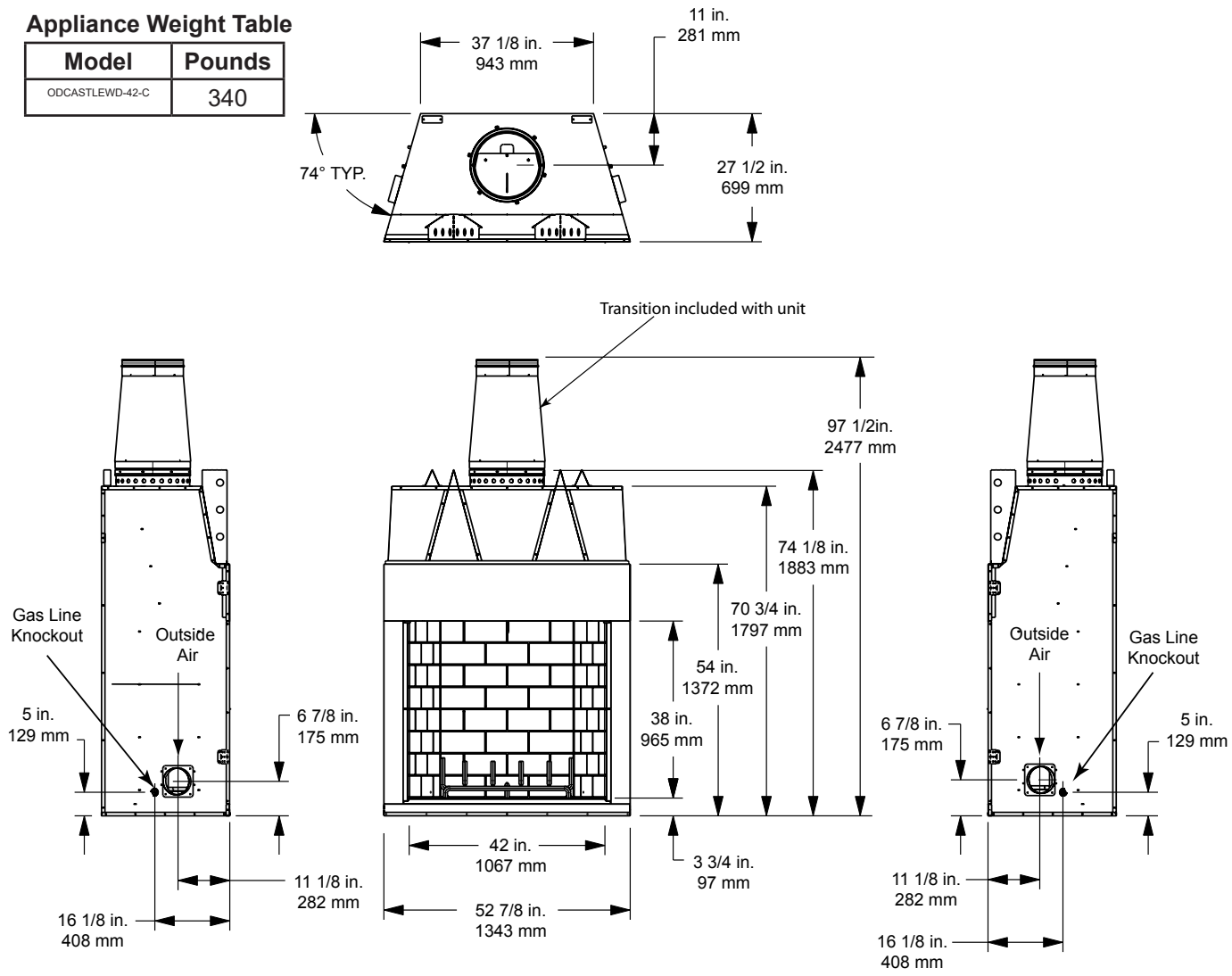


Figure 3.1 Appliance Dimensions

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

WITHIN ENCLOSURE AREA	
Fireplace to backwall	1-1/2 in. (38 mm)
Fireplace to sidewall	1-1/2 in. (38 mm)
Top standoffs to header	0 in. (0 mm)
Door opening to sidewall	24 in. (610 mm)
MANTEL	
Mantel minimum height	22 in. (559 mm) above opening
Maximum mantel depth	12 in. (305 mm)

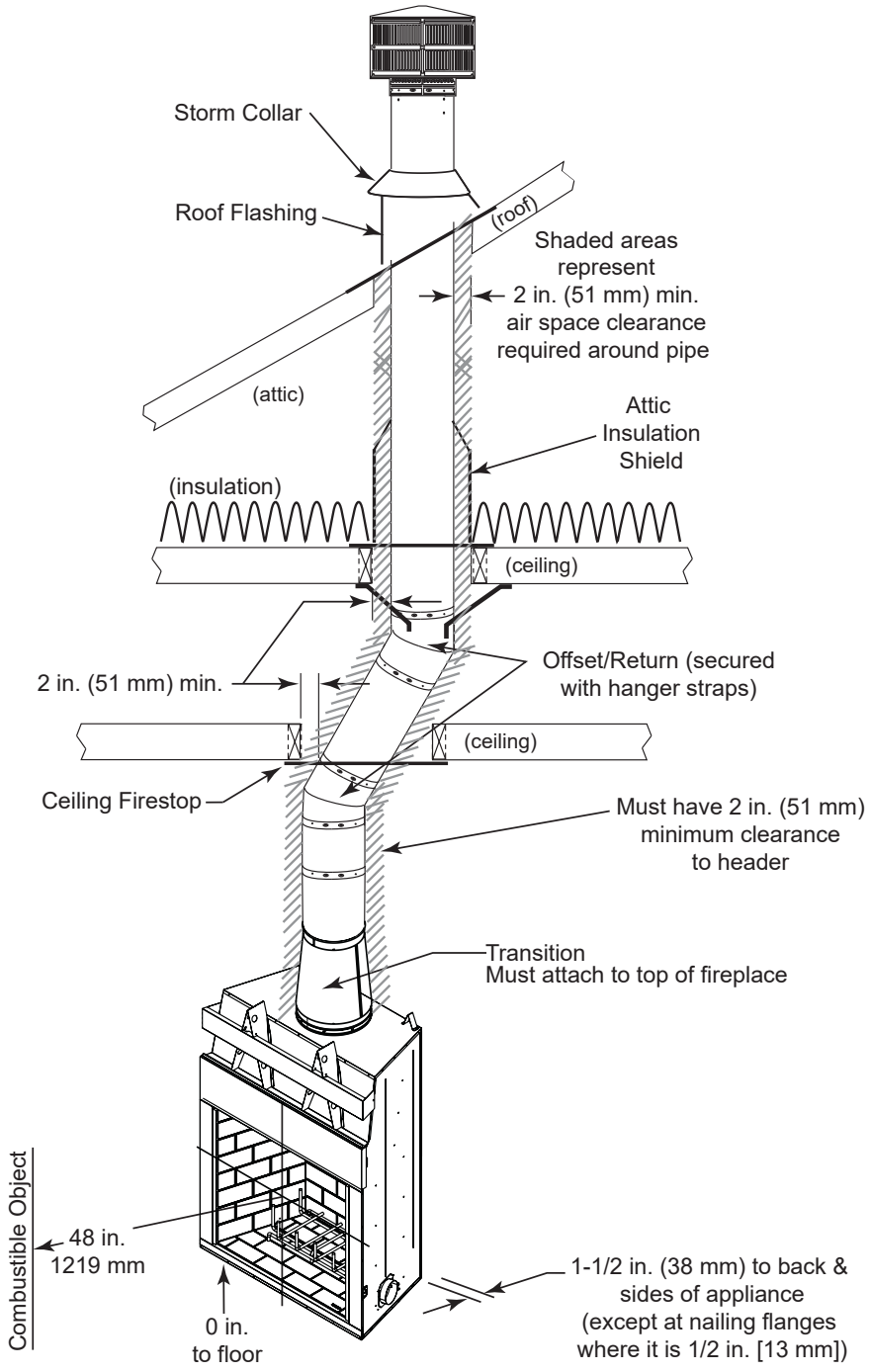


Figure 3.2 Clearances to Combustible Materials

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 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 3.3. This will help reduce heat loss from the home around the fireplace.

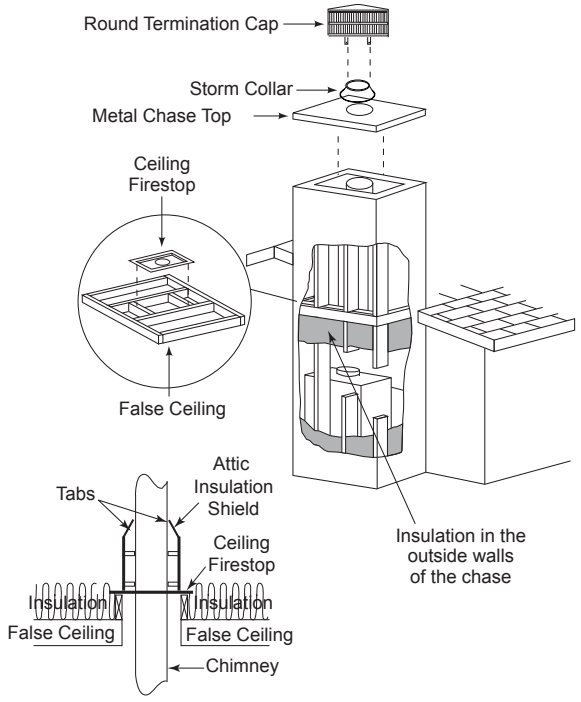


Figure 3.3 Chase Assembly

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 3.4.

1. Fireplace and chimney enclosed in an exterior chase.
2. Chimney offset through exterior wall and enclosed in chase.
3. Chase constructed on roof.

All outside walls should be insulated.

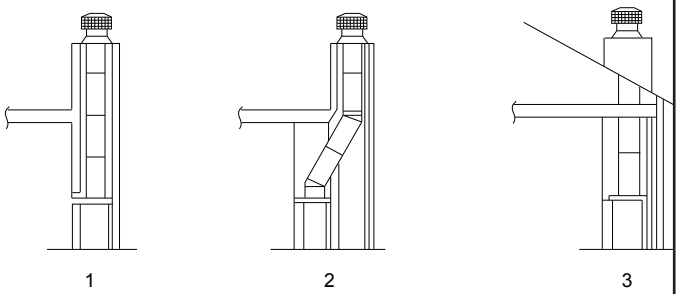


Figure 3.4 Chase Constructions

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 3-3/4", if you want a higher raised hearth the fireplace must be placed on a platform.

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. (No recess above standoffs.)

The finished cavity depth must be no less than 28-1/2 in. (724 mm) from the finished backwall to the outside of front wall framing. Framing must extend straight up all the way to the ceiling.

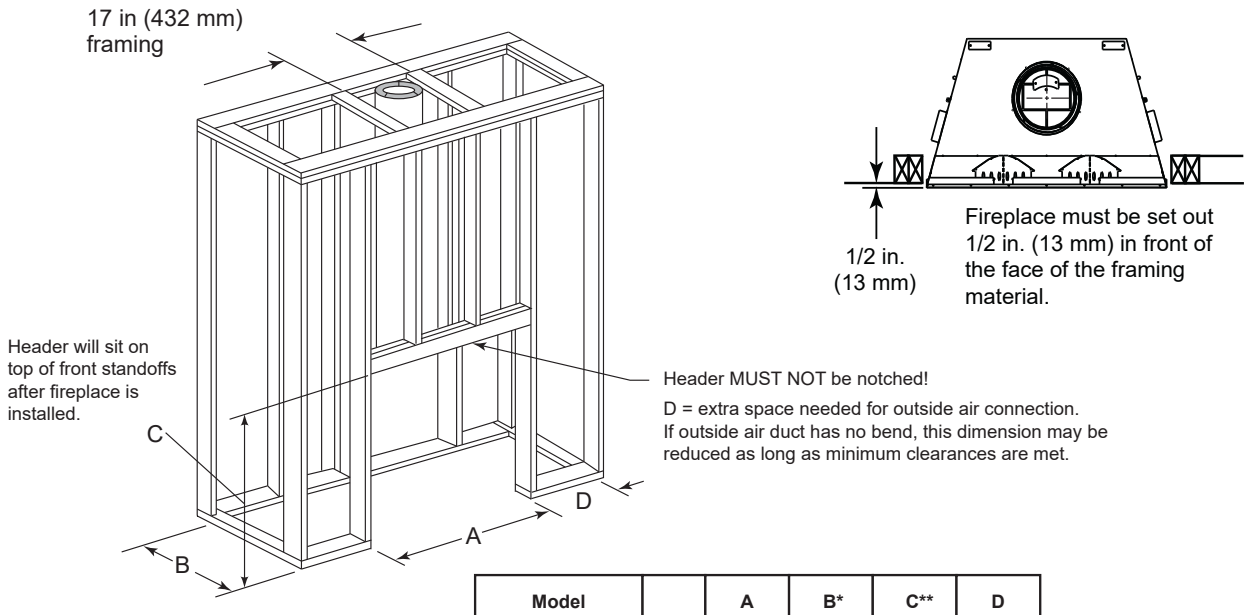
Note: Before framing up the chase, consider where and how the chimney will run. If there are obstacles that might be in the way, it may be necessary to make the chase larger than shown to allow offsets to be used. Refer to offset chart on page 16.

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

- *A minimum 1-1/2 in. (38 mm) air clearance must be maintained at the back and 1-1/2 in. (38 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.*

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



Model		A	B*	C**	D
ODCASTLEWD-42-C	in.	53-7/8	28-1/2	74-1/2	12
	mm	1368	724	1892	305

* If interior of chase will be drywalled, add the thickness to this measurement.
** Rough opening dimension to be able to get fireplace installed.

Figure 3.5 Framing the Fireplace

Note:

- 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.

- **Freestanding Installations (see Figure 3.14 and 3.15)**
  When installing this fireplace as a freestanding fireplace in your yard, it must be enclosed to prevent impact damage to the fireplace. Freestanding applications allow for a reduction in the minimum vent run. Non-combustible framing and an extended smoke shield are required. See Table 3.1 and Figure 3.14.
- **Porch and Patio Installations**
  The fireplace will not perform as an exterior wall. Hearth & Home Technologies recommends that the fireplace chase be constructed outside the structure's weather envelope. Where the platform meets the wall, use a flashing detail similar to that required for attached decks. Chase platforms, including heaths should slope away from the structure at 1/8 in. to 1/4 in. per foot. The fireplace can be shimmed level.

When Installed on Surfaces Where Water May Collect or Cause Damage:

Hearth & Home Technologies recommends that a drainage pan be placed under the unit (sold separately). This can be constructed of metal, adhesive polymer membrane (such as ice and water shield) or other suitable materials. A means of drainage out of the pan such as tubes or weep holes should be provided. A slope of 1/8 in. to 1/4 in. per foot towards the drain port is suggested. The fireplace can be shimmed level. Hearths should slope away from the front of the fireplace and chase at 1/8 in. to 1/4 in. per foot. Spark strips must be used on top of any combustible hearth materials used for moisture management.

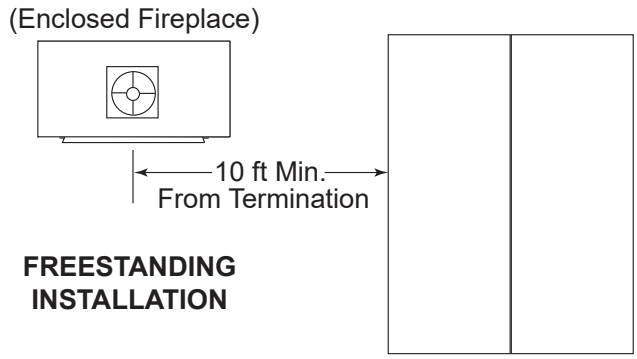
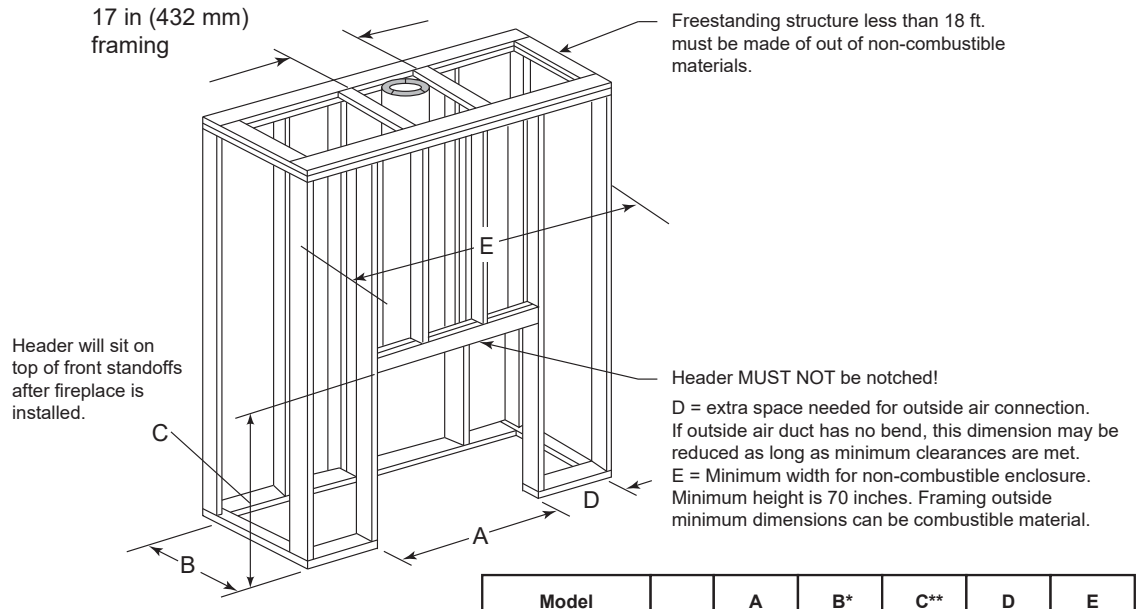


Figure 3.15 Freestanding Fireplace Location

Table 3.1 Reduced Chimney Requirements

Non-combustible enclosure minimum straight height	*10 ft*	*3.05 m*
Non-combustible enclosure minimum straight height with single offset/return	*10 ft.*	*3.05 m*
If vent run is less than 18 ft. an extended smoke shield needs purchased and used.	*INCLUDED*	



Model		A	B*	C**	D	E
ODCASTLEWD-42-C	in.	53-7/8	28-1/2	74-1/2	12	77-7/8
	mm	1368	724	1892	305	1978

* If interior of chase will be drywalled, add the thickness to this measurement.
** Rough opening dimension to be able to get fireplace installed.

Figure 3.14 Freestanding Framing

E. Secure and Level the Fireplace

This fireplace may be placed on either a combustible or noncombustible continuous flat surface. Slide the fireplace into position. Be sure to provide the minimum 1-1/2 in. air clearance at the sides and 1-1/2 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.

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 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 3.6).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 3.7. See Section 7 for hearth extension instructions.

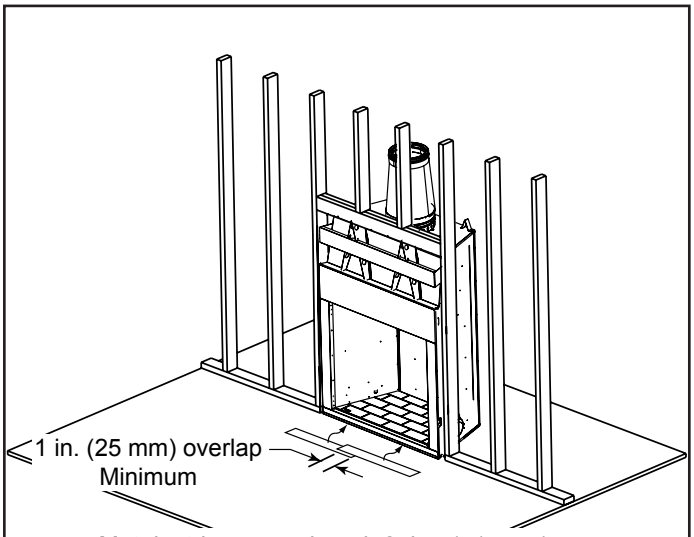


Figure 3.6 Position the Protective Metal Hearth Strips

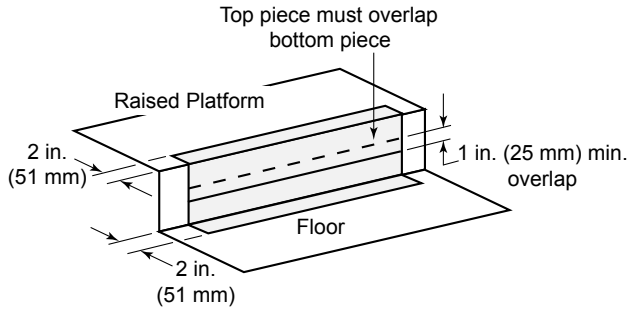


Figure 3.7 Protect the Front of an Elevated Platform

G. Outside Air Kit (Required on both sides)

Outside air kits must be used for combustion and to provide cooling air to prevent overheating. Hearth & Home Technologies recommends you utilize the shortest duct run to optimize the performance of the outside air kit and install a P-Trap (see Figure 3.10). The outside air inlet hoods 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 hoods.

Note: Maximum length is 40 feet.

WARNING! Risk of Fire! *The outside air kits are installed on the both sides of the fireplace to prevent overheating and fire.*

Refer to Figures 3.8 and 3.9 when placing the outside air inlets.

- Cut a 6-1/2in. (165 mm) hole in outside wall to accommodate air piping.
- Use 6 in. (152 mm) flex (not supplied) to directly connect outside air to fireplace intake. Insulate the pipe to prevent frost condensation.
- Use the supplied outside air inlet hoods.
- Seal between the wall and the pipe with silicone to prevent moisture penetration and air leaks.
- Seal between the outside air inlet hoods 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 and unit overheat.*

NOTICE: *The fireplace provides some outside air for combustion. Other methods may be necessary if more air is required.*

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

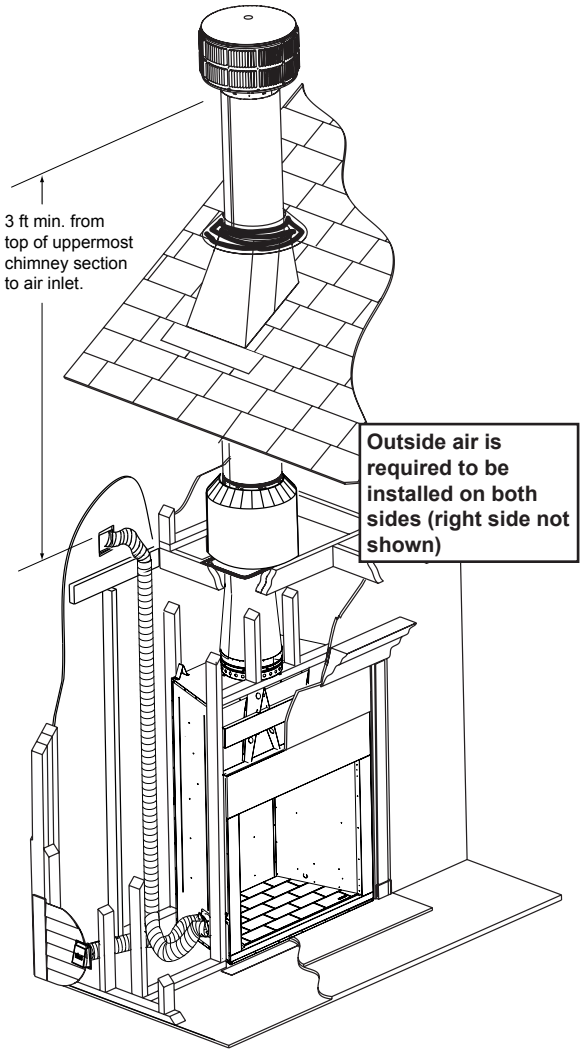


Figure 3.9 Outside Air Inlet Locations

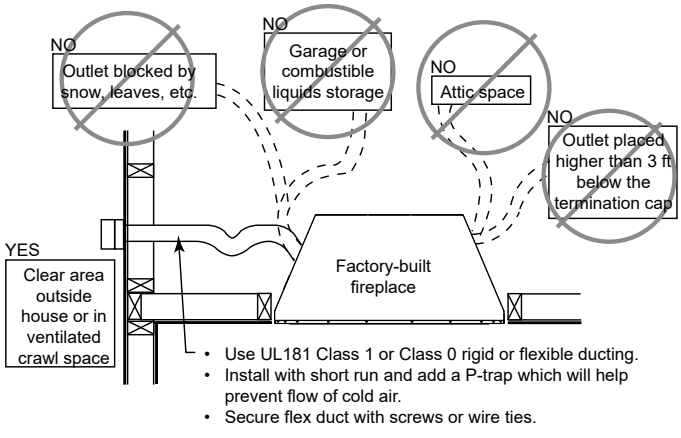


Figure 3.8 Outside Air Installation

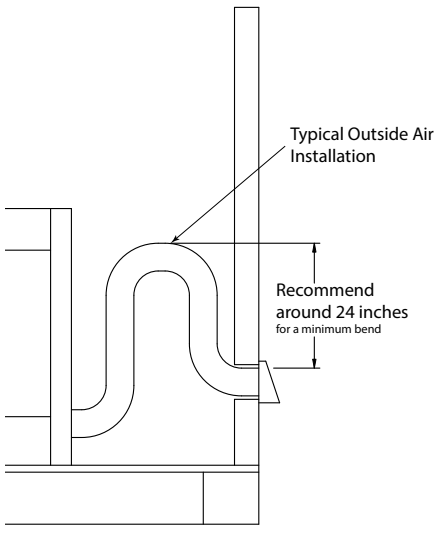


Figure 3.10 P-Trap

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

• Minimum overall straight height	18 ft	(5.5 m)
• Minimum height with offset/return	18.5 ft	(5.64 m)
• Maximum height	90 ft	(27.43 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)
• Minimum height with double offset/return	22.5 ft	(6.86 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.*

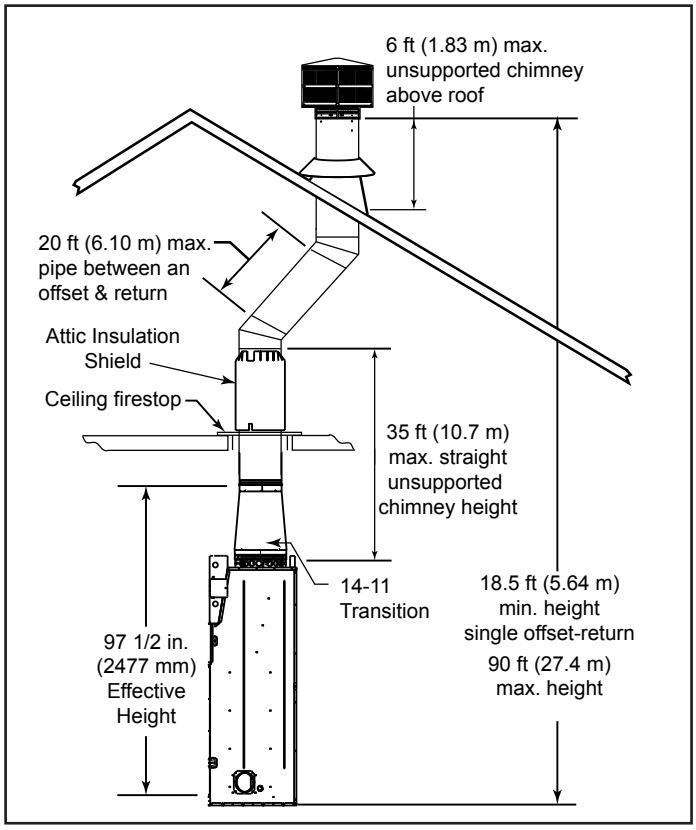


Figure 4.1 Chimney Requirements

***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 4.2 Chimney Component Dimensions

HEIGHT OF CHIMNEY COMPONENTS		*in.*	*mm*
Chimney Stabilizer			
	SL11	4-3/4	121
Offsets/Returns			
	SL1130	18	457
Chimney Sections*			
	SL1106	4-3/4	121
	SL1112	10-3/4	273
	SL1118	16-3/4	425
	SL1136	34-3/4	883
	SL1148	46-3/4	1187

*** 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.

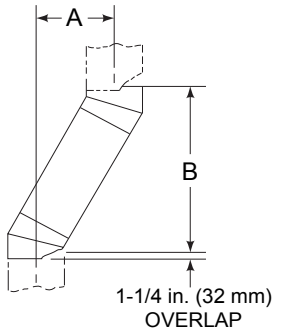


Figure 4.2 Chimney Offset/Return

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 determine from the table that you need 36-5/8 in. (930 mm) (Dimension "B") between the offset and return.

The chimney components that best fits your application are two SL1112's.

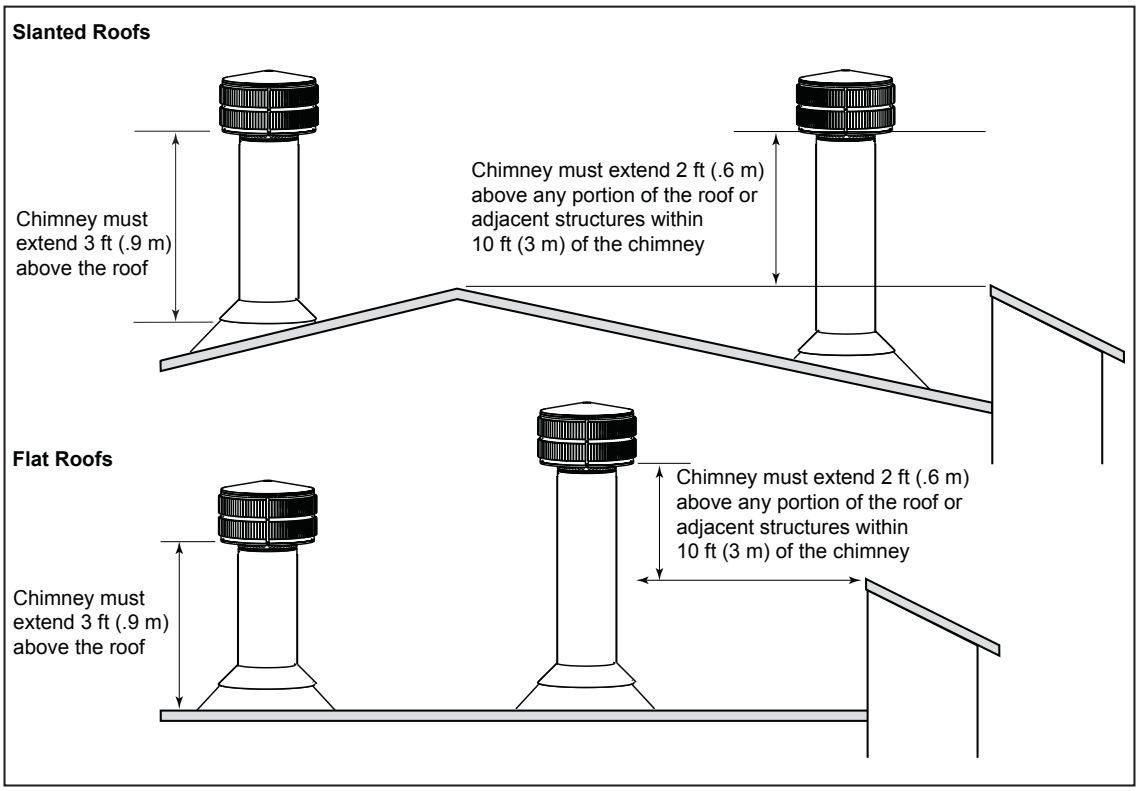
Table 4.3 Offset Dimensions

A		B						
in.	*mm*	*in.*	*mm*	SL1106	SL1112	SL1118	SL1136	SL1148
4 7/8	124	17 7/8	454	-	-	-	-	-
7 1/4	184	22	559	1	-	-	-	-
9 3/4	248	26 1/8	664	2	-	-	-	-
10 1/4	260	27 1/4	692	-	1	-	-	-
12 3/4	324	31 3/8	797	1	1	-	-	-
13 1/4	337	32 3/8	822	-	-	1	-	-
15 3/4	400	36 5/8	930	-	2	-	-	-
18 1/8	460	40 3/4	1035	1	2	-	-	-
18 3/4	476	41 3/4	1060	-	1	1	-	-
21 3/4	552	47	1194	-	-	2	-	-
22 1/4	565	48	1219	-	-	-	1	-
24 3/4	629	52 1/8	1324	1	-	-	1	-
27 3/4	705	57 3/8	1457	-	1	-	1	-
28 1/4	718	58 3/8	1483	-	-	-	-	1
30 3/4	781	62 1/2	1588	1	-	-	-	1
33 3/4	857	67 3/4	1721	-	1	-	-	1
36 3/4	933	73	1854	-	-	1	-	1
39 3/4	1010	78 1/8	1984	-	-	-	2	-
41 1/8	1045	82 3/8	2092	1	-	-	2	-
45 3/4	1162	88 1/2	2248	-	-	-	1	1
48 1/8	1222	92 3/4	2356	1	-	-	1	1
51 3/4	1314	98 7/8	2511	-	-	-	-	2

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.

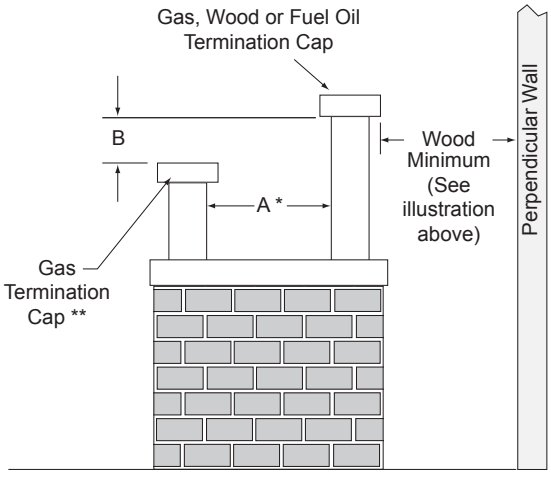
C. Termination Requirements

- 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.



Multiple Chimney Locations

A	B
6 in. (minimum) up to 20 in. *152 mm/508 mm*	18 in. minimum *457 mm*
20 in. and over	0 in. minimum



* 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.

Figure 4.3 Multiple Chimney Locations

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.*

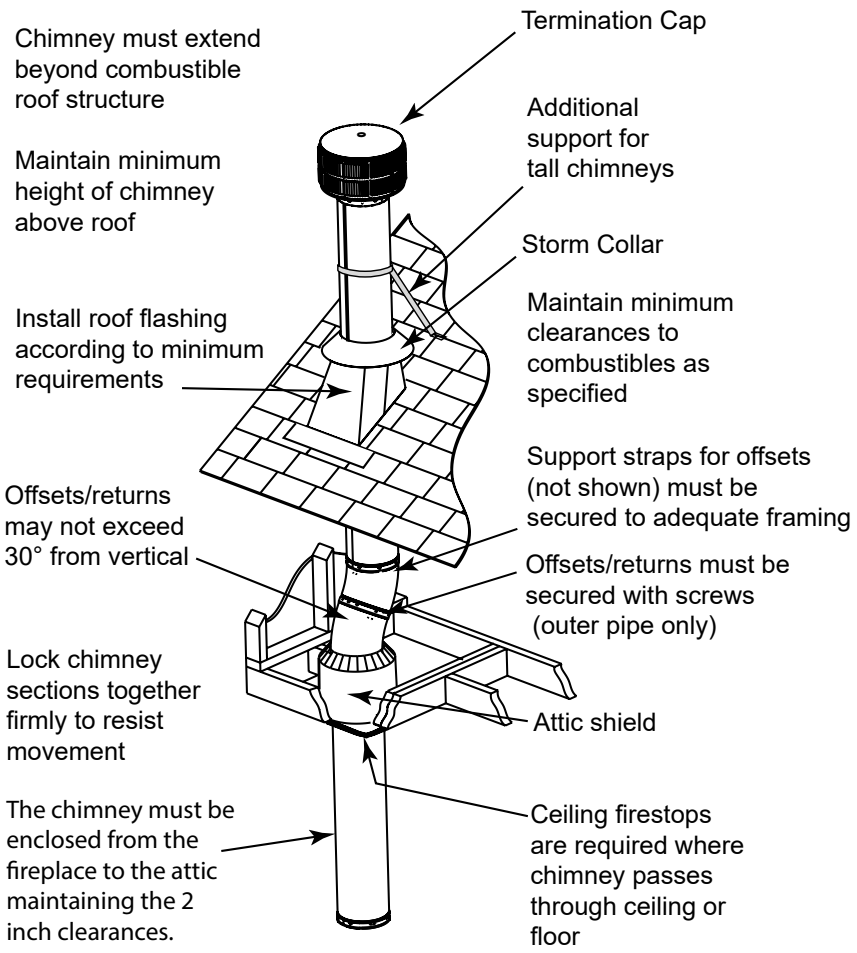


Figure 5.1 Typical Chimney System - Guidelines for Chimney System Installation

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.

  ***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 Pinch Point!** Failure to secure elevated flue with methods not able to bear the full weight of the pipe could result in serious injury.*

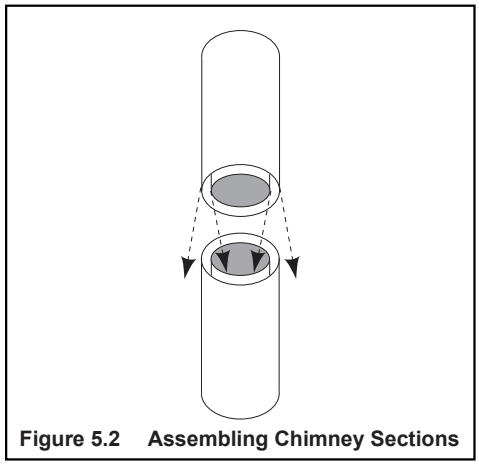


Figure 5.2 Assembling Chimney Sections

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

C. Install Chimney Air Kit (optional)

- Follow instructions included with accessory.

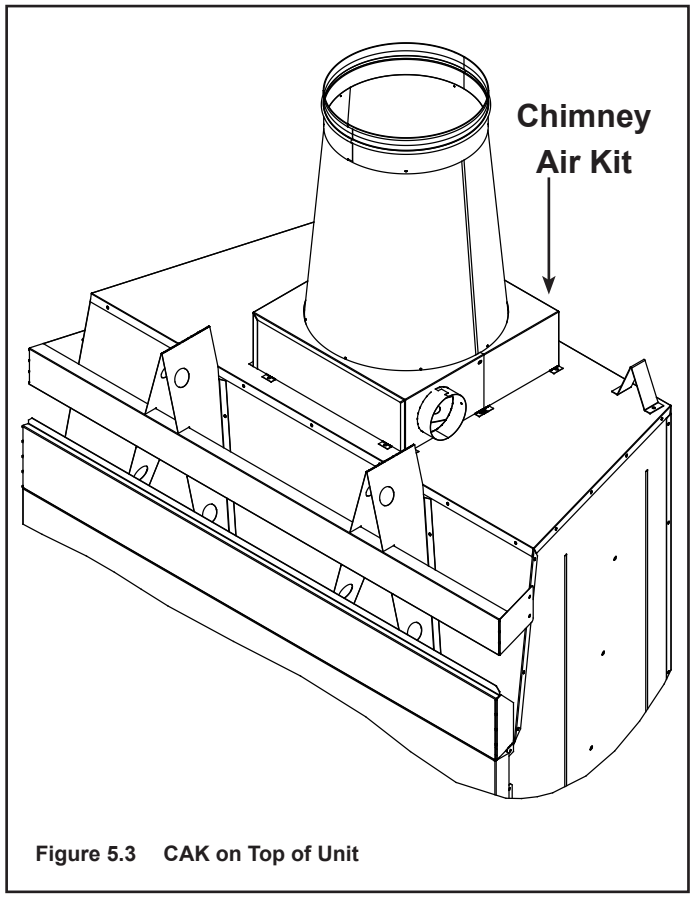


Figure 5.3 CAK on Top of Unit

D. Secure Offset/Return

When offsets and returns are joined to straight pipe sections, they must be locked into position with the 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 5.4.

* 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 screws (not to exceed 1/2 in./13 mm In length) at the joints.*
- *Keep chimney sections from separating or twisting.*

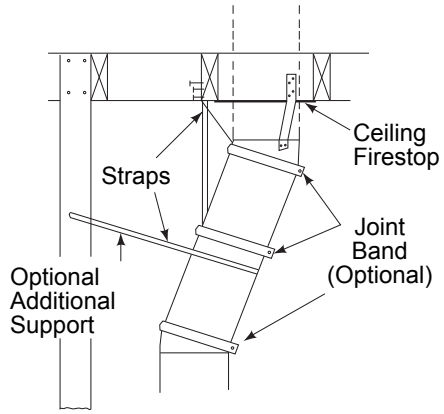


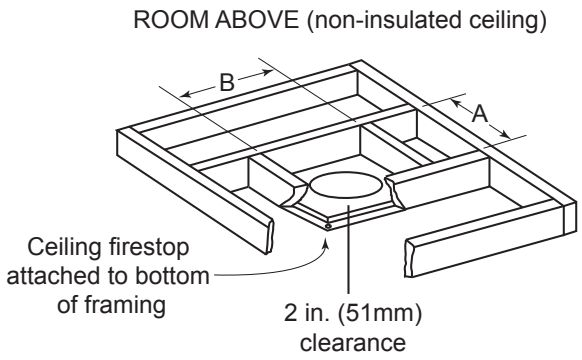
Figure 5.4 Secure the Chimney

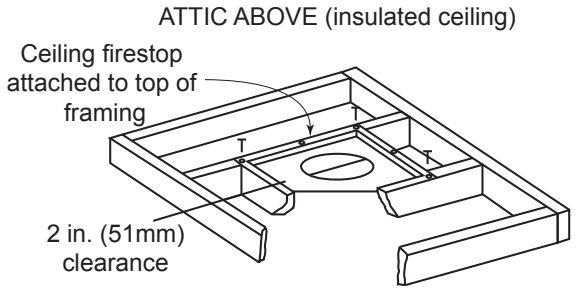
E. Install Ceiling Firestops

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 5.5.
- 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.





Note: Use same dimensional lumber for framing ceiling firestop and joists.

Catalog #	A		B	
	in.	*mm*	*in.*	*mm*
FS538	17	432	17	432
FS540	17	432	26	660

Figure 5.5 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.*
- *Combustible matrial may come into 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.

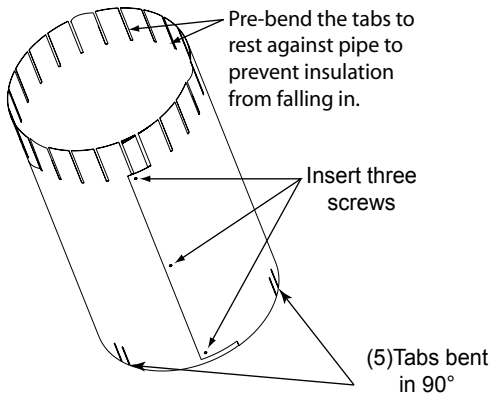


Figure 5.6 Prepare Attic Insulation Shield

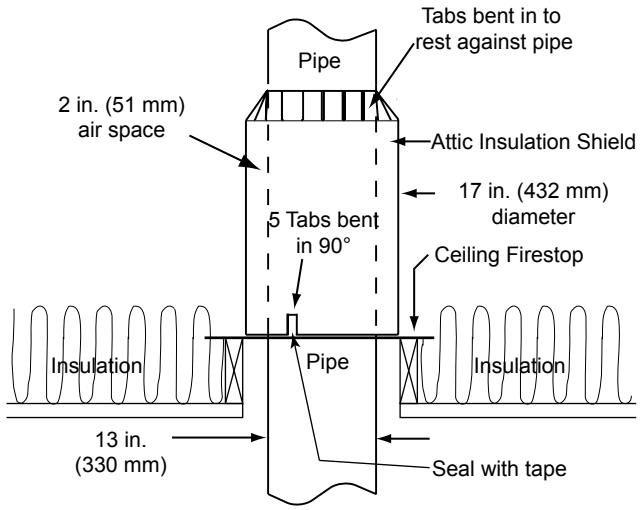


Figure 5.7 Install Attic Insulation Shield (firestop above ceiling)

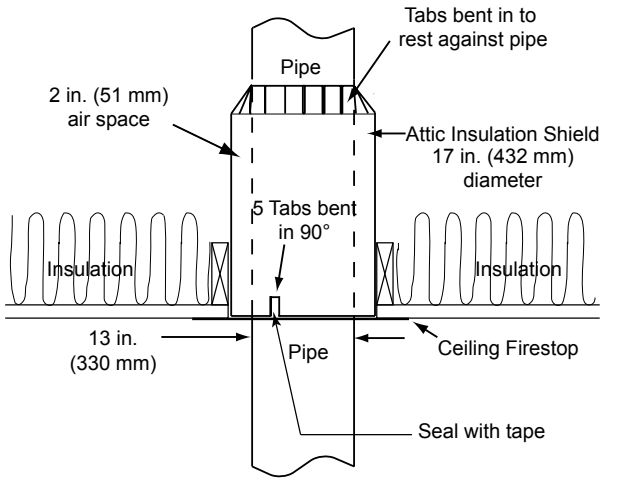


Figure 5.8 Install Attic Insulation Shield (firestop below ceiling)

G. Roof Penetration

- Refer to Figure 5.9.
- 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.

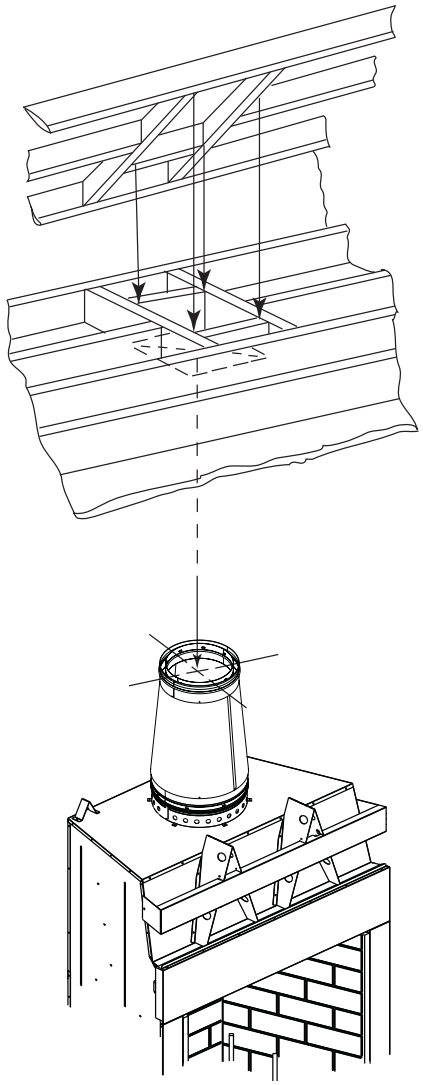


Figure 5.9 Ceiling/Attic Construction

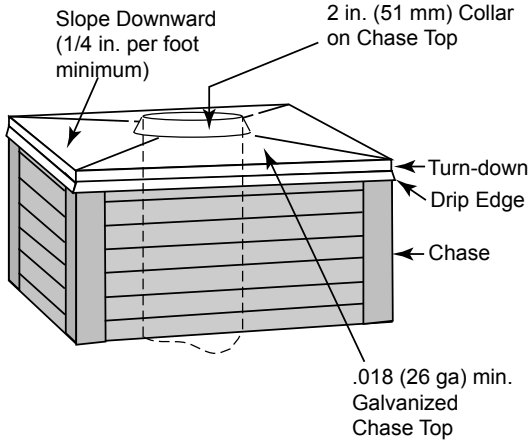


Figure 5.10 Chase Top Construction

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!** Use only termination caps described in this manual. 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.*

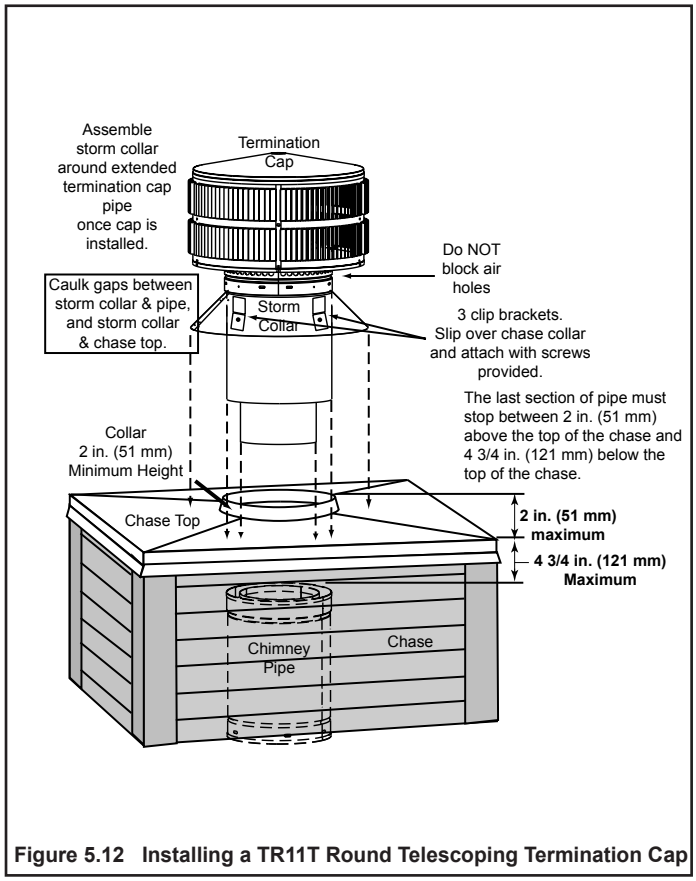
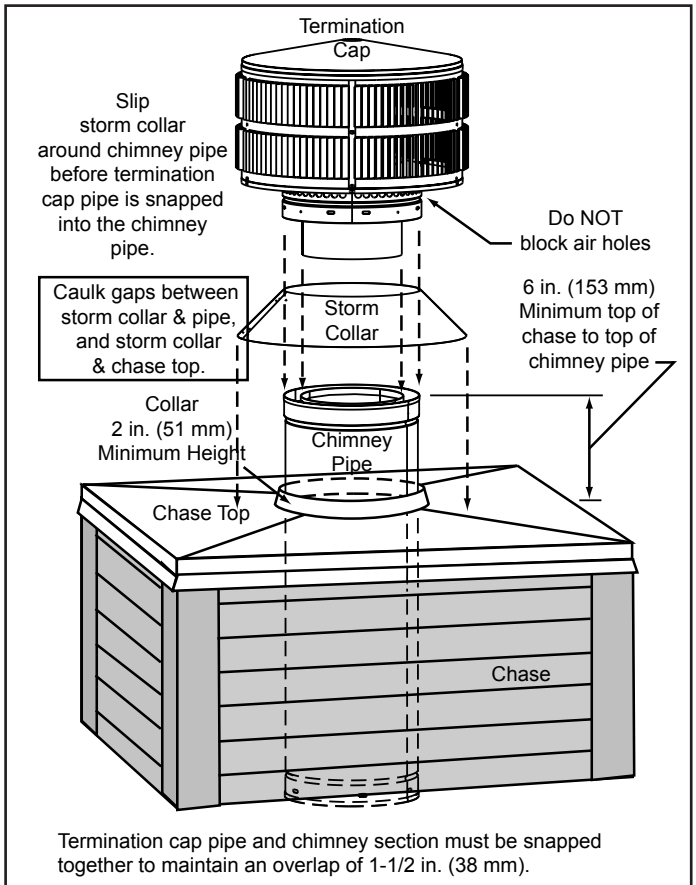


Figure 5.12 Installing a TR11T Round Telescoping Termination Cap



Termination cap pipe and chimney section must be snapped together to maintain an overlap of 1-1/2 in. (38 mm).

Figure 5.11 Installing a TR11 & TR11-TV Round Termination Cap

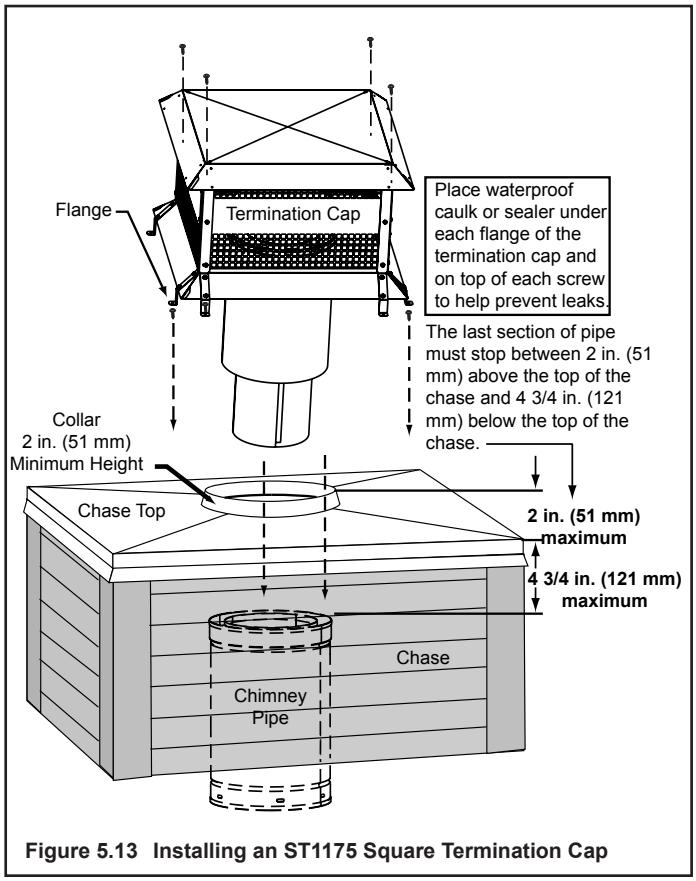


Figure 5.13 Installing an ST1175 Square Termination Cap

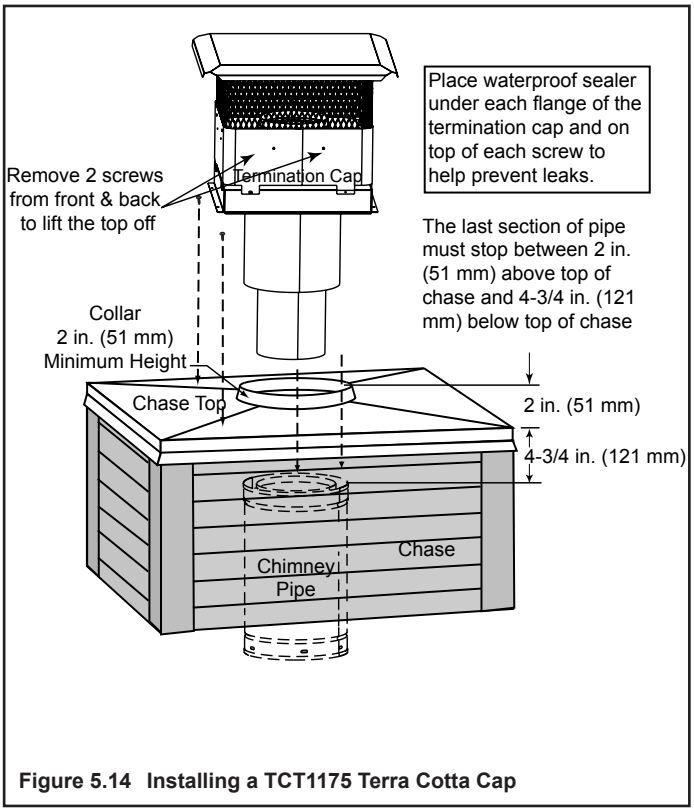


Figure 5.14 Installing a TCT1175 Terra Cotta Cap

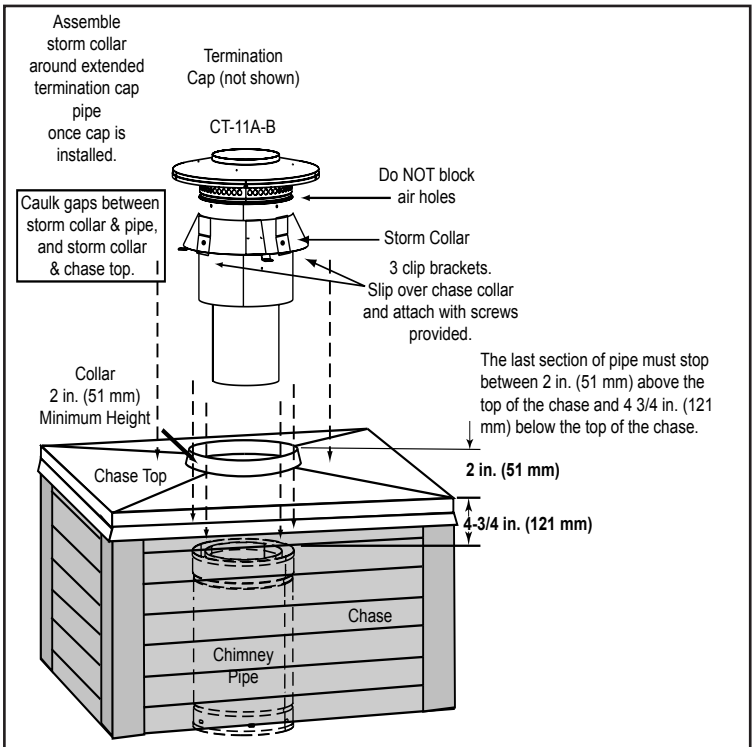


Figure 5.15 Installing a DTO134/DTO146/DTS134/DTS146 Cap

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.

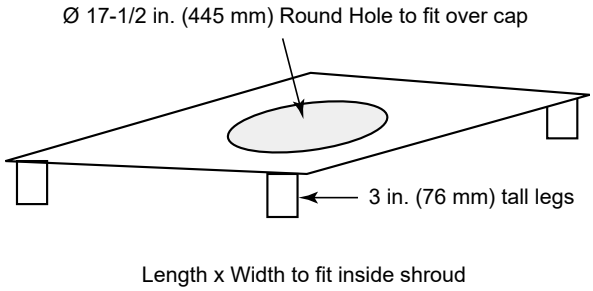


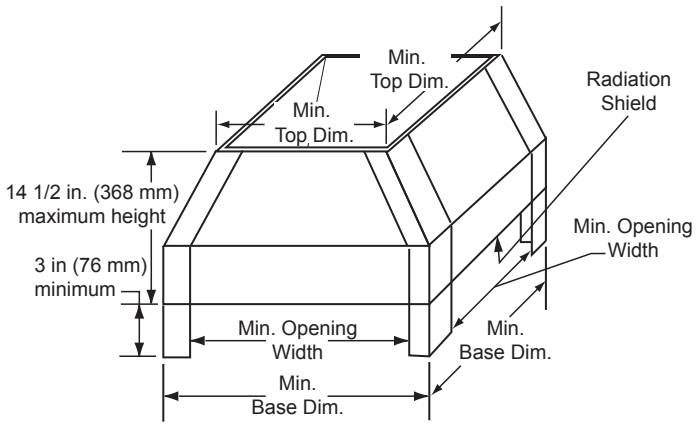
Figure 6.1 Radiation Shield

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 vent) caps do not require radiation shield.



	TR11/11T	TR11/11T TV
Min. Base Dims.		
in	32 x 32	26 x 26
mm	813 x 813	660 x 660
	Radiation Shield Required	Radiation Shield Not Required
Min. Top Dims.		
in	29 x 29	23 x 23
mm	737 x 737	584 x 584
Min. Opening Width		
in	26 x 26	20 x 20
mm	660 x 660	508 x 508

Figure 6.2 Open Top Shroud Dimensions

TR11 and 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.

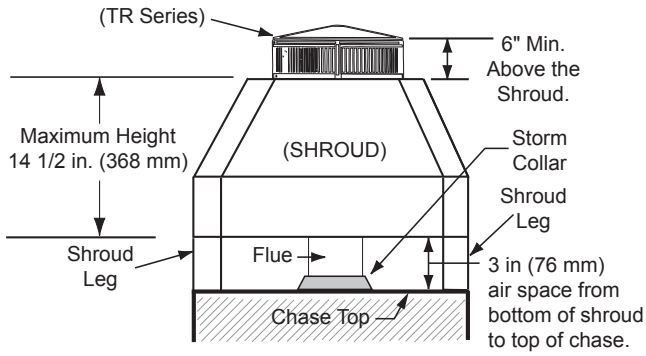
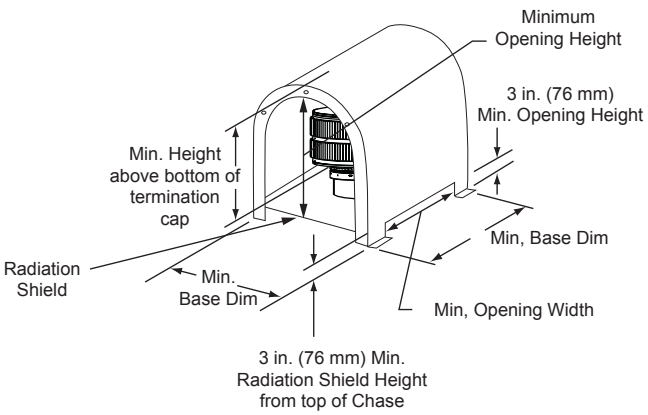


Figure 6.3 Shroud & TR Series cap with no Radiation Shield

2. Mailbox Style Shroud

Radiation shield required

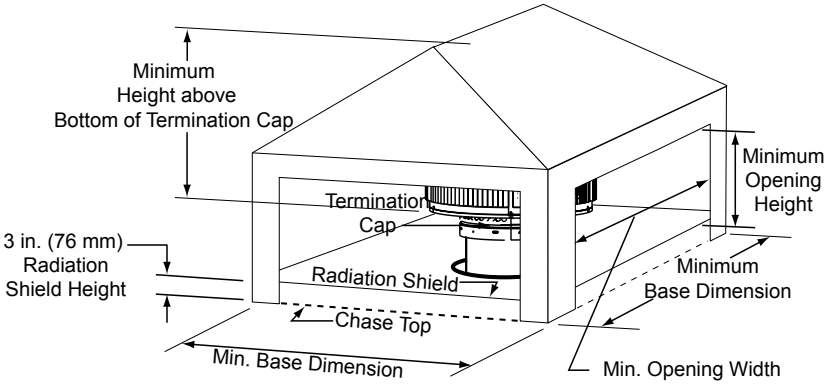


	TR11/11T	TR11/11T TV
Min. Base Dims.		
in	34 x 34	28 x 30
mm	864 x 864	711 x 762
Min. Height Above Bottom of Termination Cap		
in	28-1/4	27-1/2
mm	718	698
Min. Opening Width		
in	28	22
mm	711	559
Min. Opening Height		
in	18-1/4	17-1/2
mm	464	445

Figure 6.3 Mailbox Style Shroud Dimensions

3. Roofed Style Shroud

Radiation shield required



TR11/11T TR11/11T TV	
Min. Base Dims.	
in	34 x 34
mm	864 x 864
Min. Height Above Bottom of Termination Cap	
in	23
mm	584
Min. Opening Width	
in	28
mm	711
Min. Opening Height	
in	12
mm	305

Figure 6.4 Roofed Style Shroud Dimensions

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.*

- Apply metal lath to the metal face or non-combustible board with corrosion-resistant, self-drilling, self-tapping screws capable of penetrating the metal surface of the fireplace face in preparation for final finishing material.
- Complete framing and apply drywall over framing.
- 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.
- Only non-combustible materials may be used to cover the metal fireplace front.

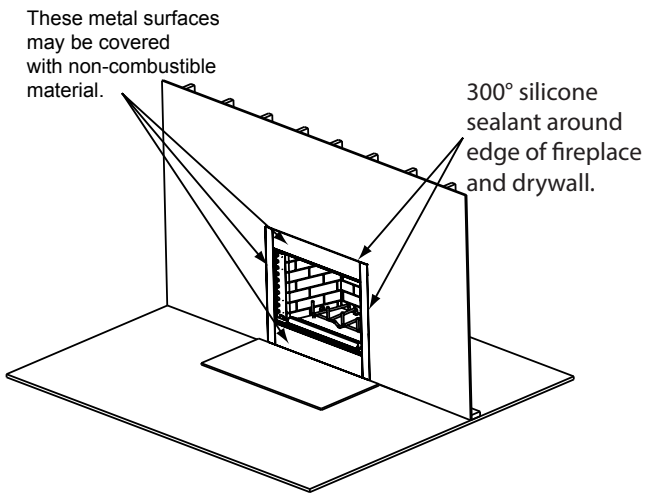
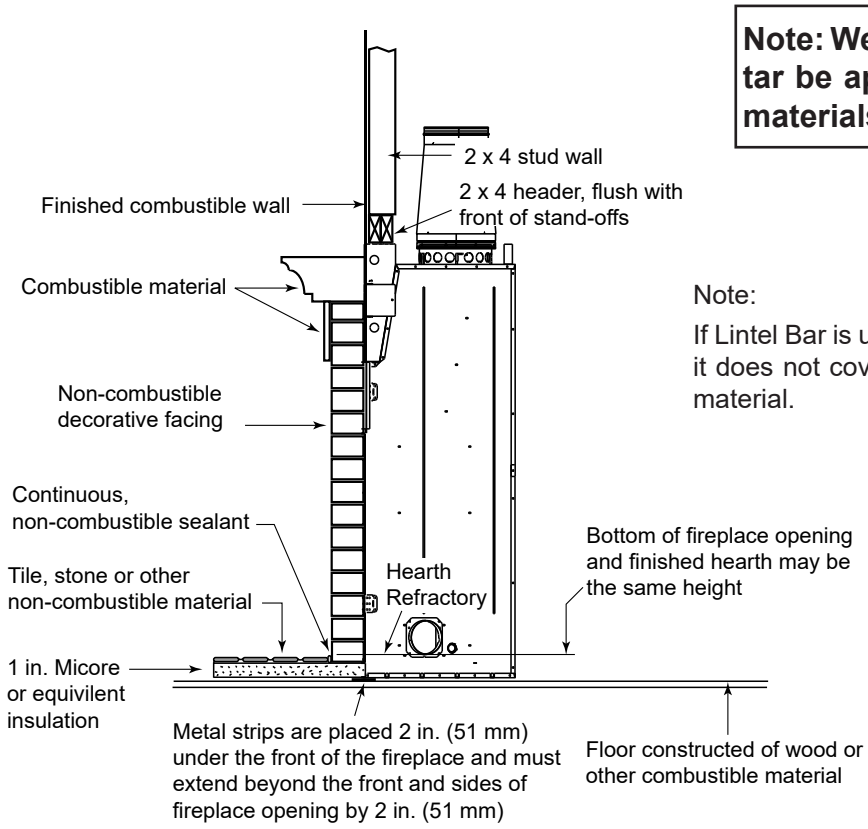


Figure 7.1 Non-combustible Facing

Note: We recommend mortar be applied after facing materials are installed.



Note:

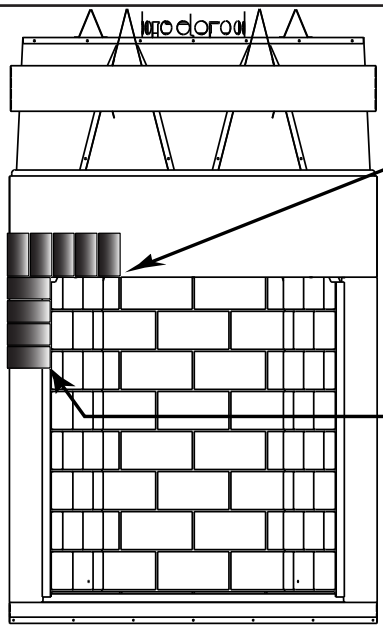
If Lintel Bar is used make sure it does not cover combustible material.

Figure 7.2 Decorative Facing

***VERY IMPORTANT**: **Allow the mortar 72 hours to cure before operating the fireplace**.*

If Mortar is applied, it should be applied after finishing material is installed. Mortar will be applied between finishing materials and molded brick edges, bottom and sides.

The seam between finishing materials and firebox top must be sealed with non-combustible sealant.



The noncombustible finishing material across the top of fireplace opening will be even with lower edge of metal face.

Noncombustible finishing materials MUST overlap side faces by 1 1/4 in. (32 mm) to cover the edges of the panels. Finished opening should be 42 x 38 in. (1067 x 965 mm) to allow for door installation.

The surface of the finished hearth extension and the surface of the hearth panel should be level.

Figure 7.3 Facing Materials and Mortar

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 7.4 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 6.1 to convert a k value to an R value,
- Refer to Table 6.2 for hearth extension insulation alternatives.

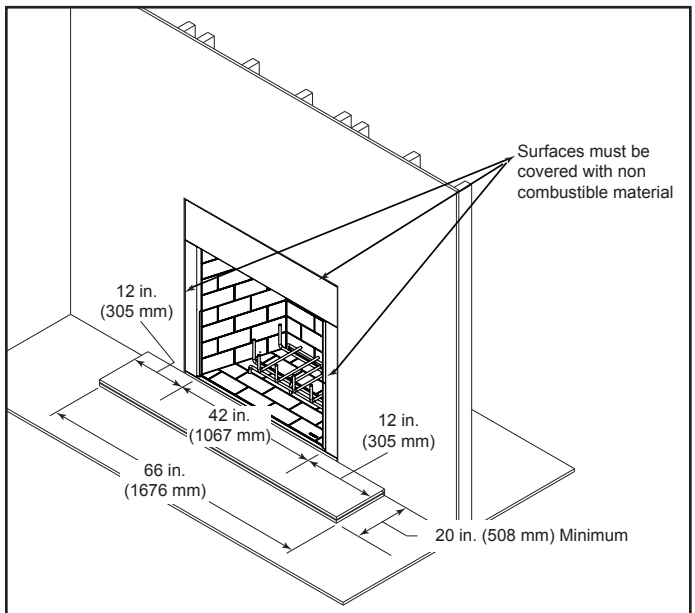


Figure 7.4 Hearth Extension Dimensions

Table 6.1

R = 1/k x inches of thickness

Table 6.2

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 3/4in.
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.

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) or HX4(s) or equivalent material. Refer to Figure 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.

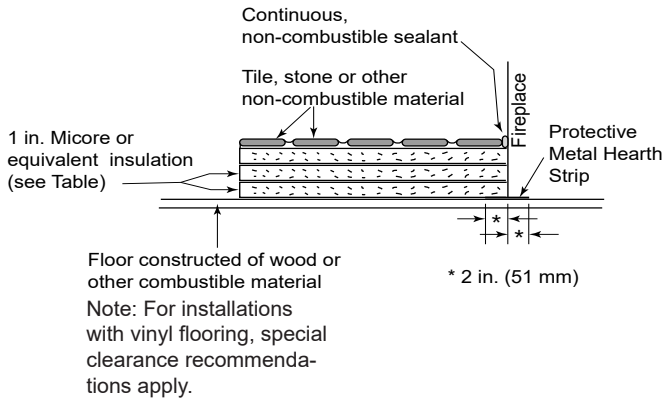


Figure 7.5 Hearth Extension Construction

Vinyl Flooring

Vinyl Flooring is sensitive to heat. A 48 inch minimum depth hearth extension is recommended when using vinyl flooring up to the wall. See Figure 7.5.

Notice: Clearances that do not meet the minimum guidelines could result in damage or buckling to the vinyl flooring and is done at the installer's or homeowner's risk.

Hearth and Home Technologies does not recommend adhesive based vinyl flooring due to thermal expansion. Floating-style flooring can be used, but will reach temperatures up to 110°F in a room with ambient temperatures of 70°F. Consult flooring specifications to ensure compatibility.

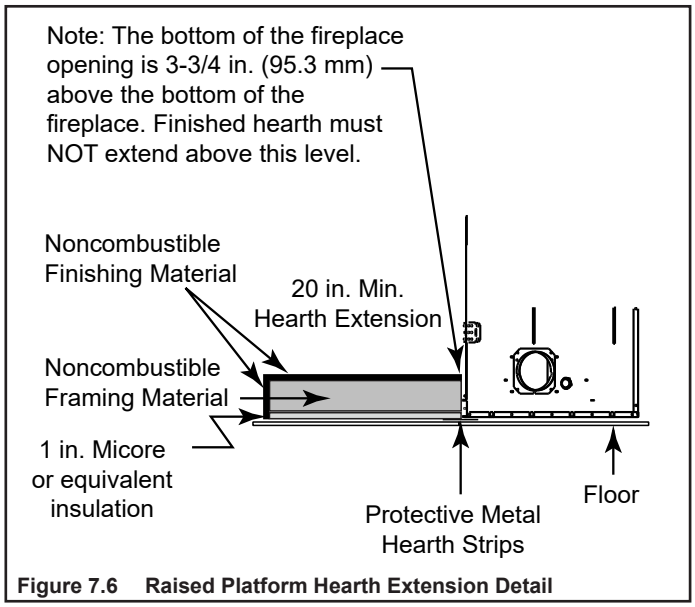


Figure 7.6 Raised Platform Hearth Extension Detail

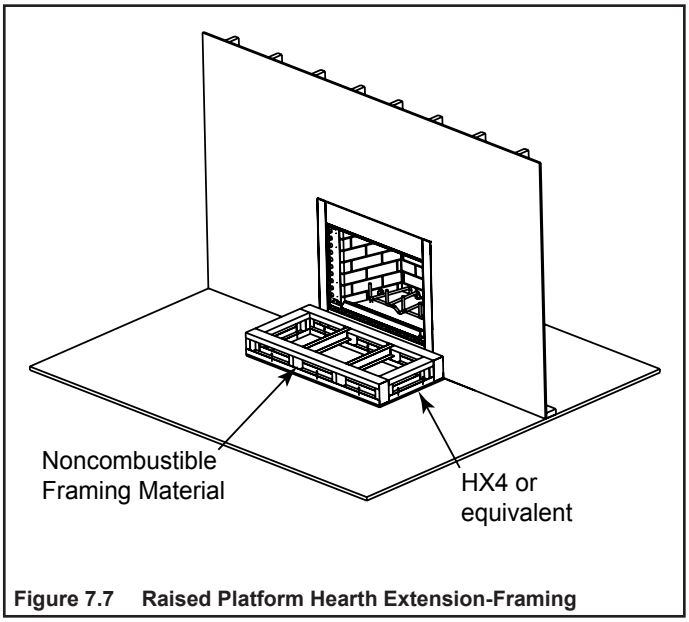


Figure 7.7 Raised Platform Hearth Extension-Framing

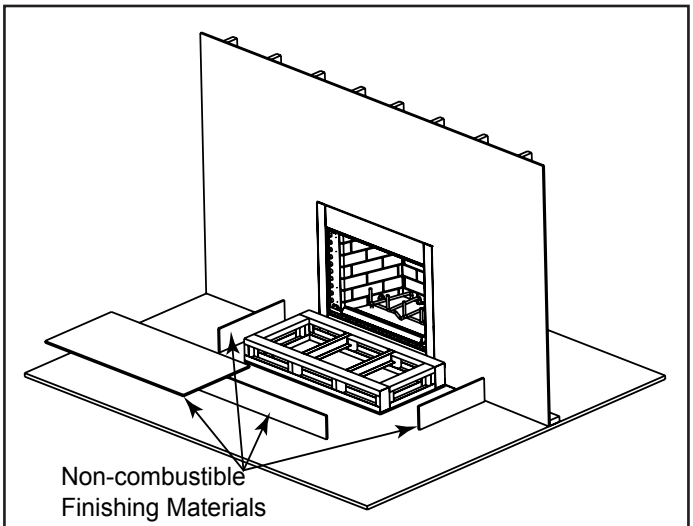


Figure 7.8 Raised Platform Hearth Extension-Finishing

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) or HX4(s) or equivalent material. Refer to Figure 7.9.

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.

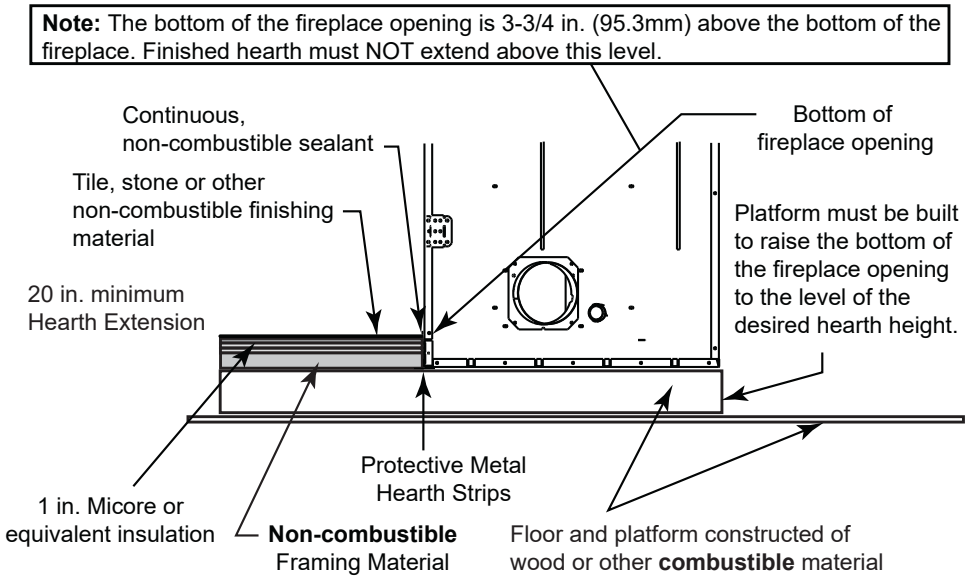


Figure 7.9 Raised Hearth Extension and Fireplace Framing Materials

3. Fireplace Opening and Hearth Extension Flush with the Floor

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) or HX4(s) or equivalent material. Refer to Figure 7.10.

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.

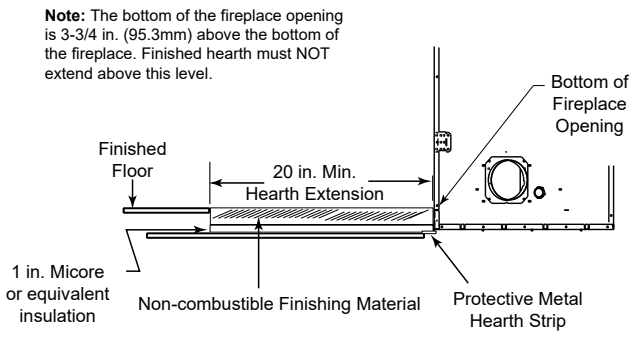


Figure 7.10 Flush Hearth Extension Side View

C. Non-Combustible Sealant Material

After completing the framing and applying the facing materials over the framing, a bead of non-combustible sealant must be used to close off any gaps at the top and sides between the fireplace and hearth.

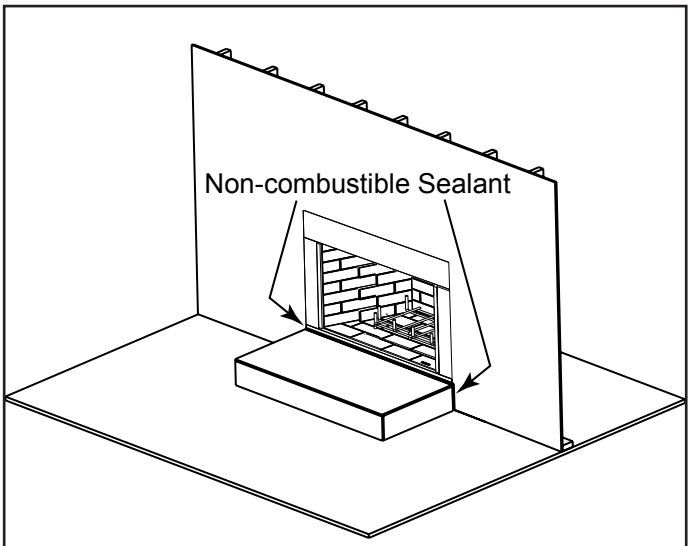


Figure 7.11 Place Non-combustible Sealant

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.*

WARNING
ADVERTENCIA

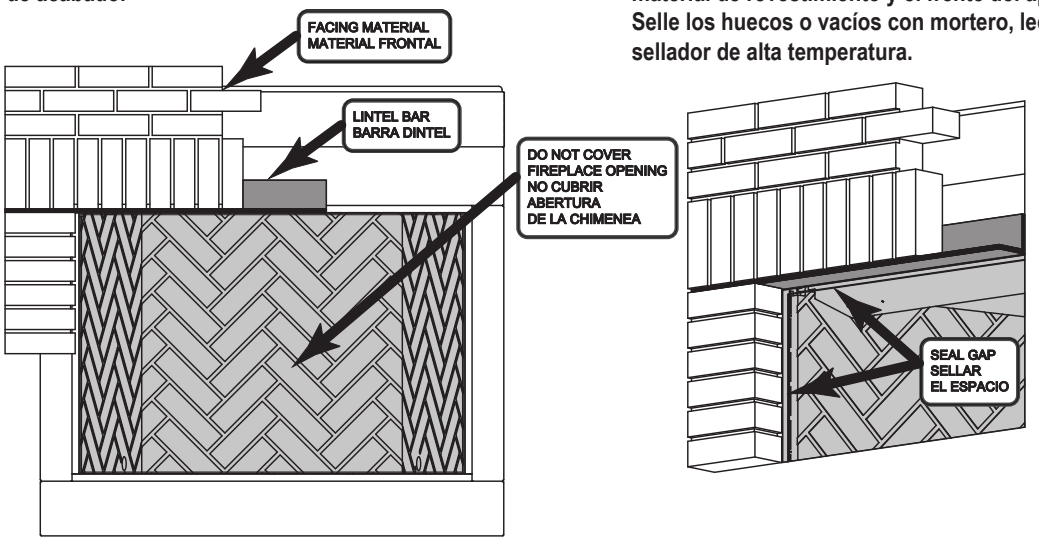
DO NOT COVER FIREPLACE OPENING with finishing material.

No cubra el hueco de la chimenea con materiales de acabado.

Risk of Fire!
Riesgo de Incendio!

There must be NO GAPS OR VOIDS between facing material and appliance front. Seal gaps or voids with mortar, grout, or high temperature sealant.

NO debe haber ESPACIOS NI VACÍOS entre el material de revestimiento y el frente del aparato. Selle los huecos o vacíos con mortero, lechada o sellador de alta temperatura.



****REMOVE LABEL BEFORE APPLYING FINISHING****
****RETIRE LA ETIQUETA ANTES DE APLICAR EL ACABADO****

4017-289 rev D

NON-COMBUSTIBLE label attached to firescreen by manufacturer.

D. Mantel and Wall Projections

The combustible mantel may have a maximum depth of 12 in. (305 mm) positioned 22 in. (559 mm) 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 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

A non-combustible mantel can be placed lower than Figure 7.13, but all building materials that construct the wall must be changed to non-combustible.

WARNING! Risk of Fire!

You must seal around the finishing material to fireplace.

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.*

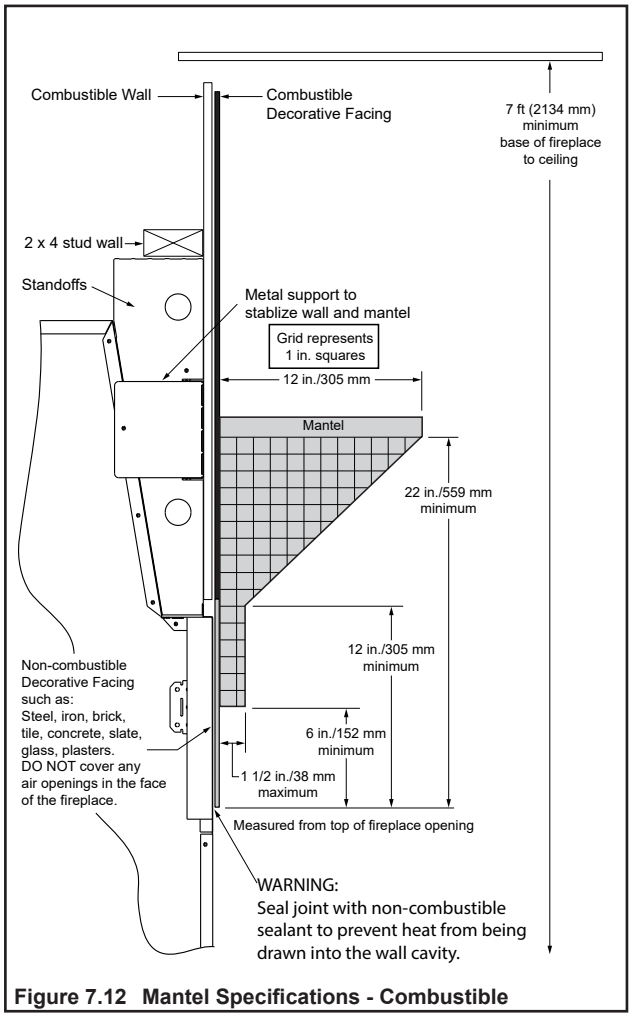


Figure 7.12 Mantel Specifications - Combustible

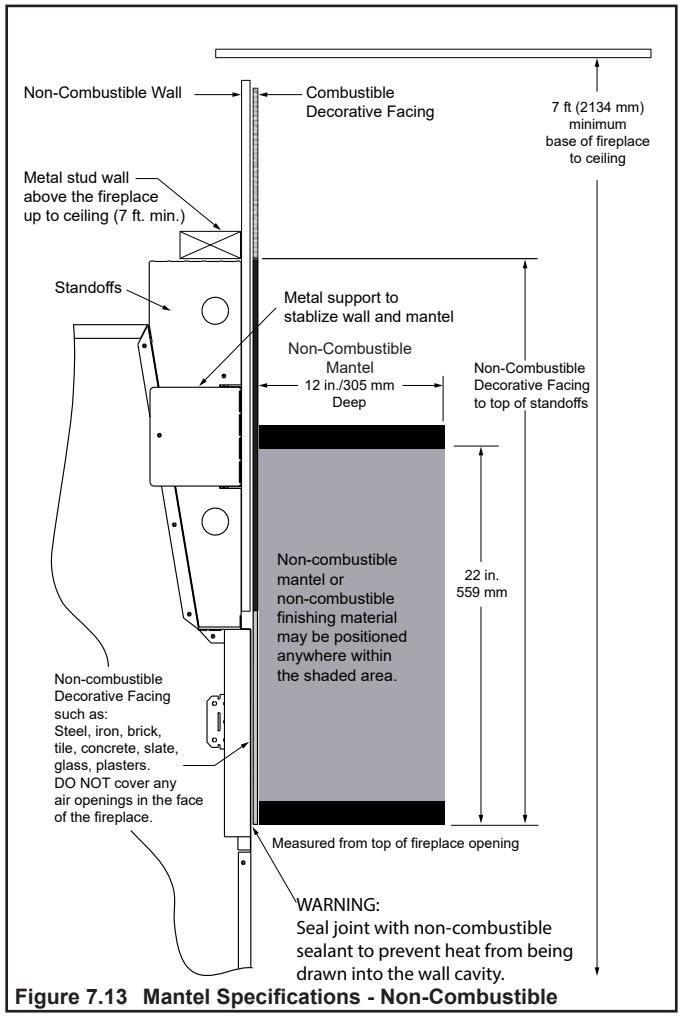


Figure 7.13 Mantel Specifications - Non-Combustible

E. Sidewalls/Surrounds

- Locate adjacent combustible sidewalls a minimum of 24 in. (610 mm) from fireplace opening.
- Mantle leg, surround, stub wall, whether combustible or non-combustible, may be constructed as shown in Figure 7.14.

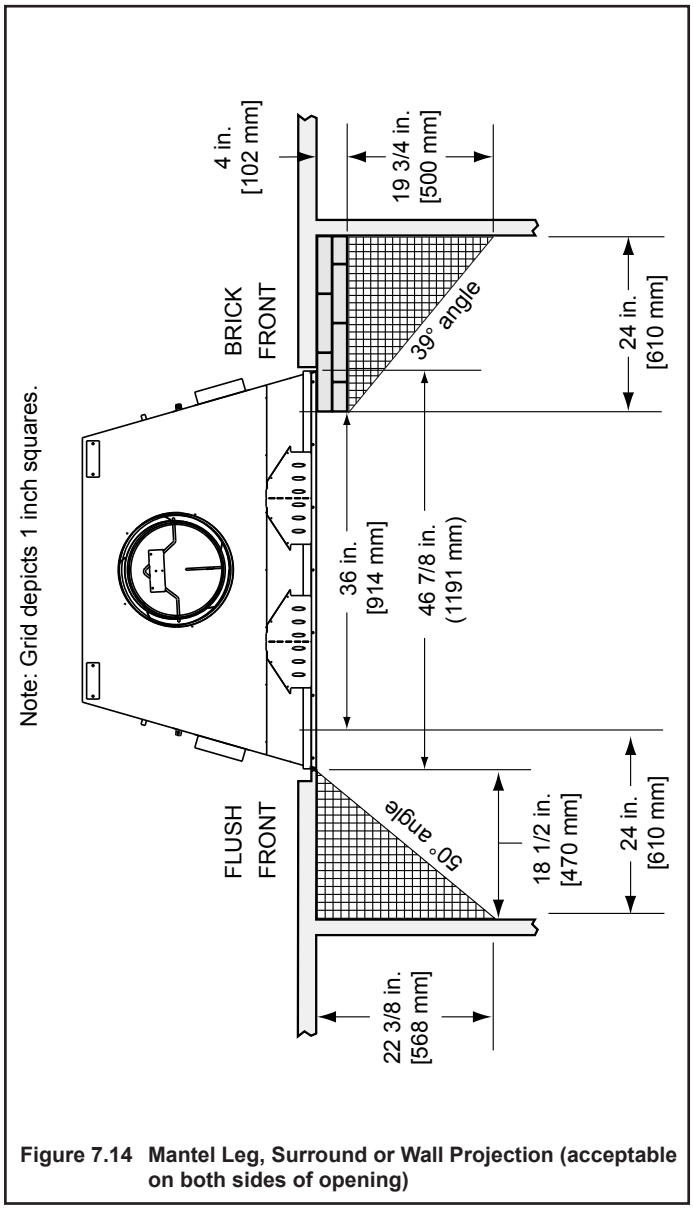


Figure 7.14 Mantel Leg, Surround or Wall Projection (acceptable on both sides of opening)

8 Fireplace Setup

A. Refractory Panel Kit in Crate

- The Refractory Panels are shipped in a sturdy crate with 3 to 4 trays for individual Refractory Panels.
- Remove the lid from crate to access Refractory Panels.
- Remove all corner brackets from the crate.
- Use a clean paint brush to remove any accumulated dust from Refractory Panel before removing it from the crate. See Figure 8.



Figure 8 Clean Refractory Panel

B. Install Back Refractory Panel

- Remove screen rods.
- Remove smoke shield.
- Install the back refractory. Center from side to side.
- Secure back refractory at the top edge using refractory retainers provided with the fireplace. Holes for screws will need to be drilled.
- Tighten these and all previously installed brackets.

C. Install Hearth Refractory Panel

- Place hearth into the fireplace with gap to back.
- Refer to Figure 8.1.
- Set the grate retainers centered along back edge of hearth and spaced to match the grate.
- Push hearth to meet back and secure grate retainers.

D. Install Side Refractory Panel

- If a gas line is to be installed, remove the knockouts in the inner firebox and in the outer shell on the side of your choice. Refer to dimension drawings for location of knockouts and Section 8.4. for gas provisions.
- Install side panel, tapered edge to the front. Align the front edge with the front of the column (or butted to the surround if installed).
- Tighten these and all previously installed brackets.
- Install second side panel following the steps above.
- Replace smoke shield.

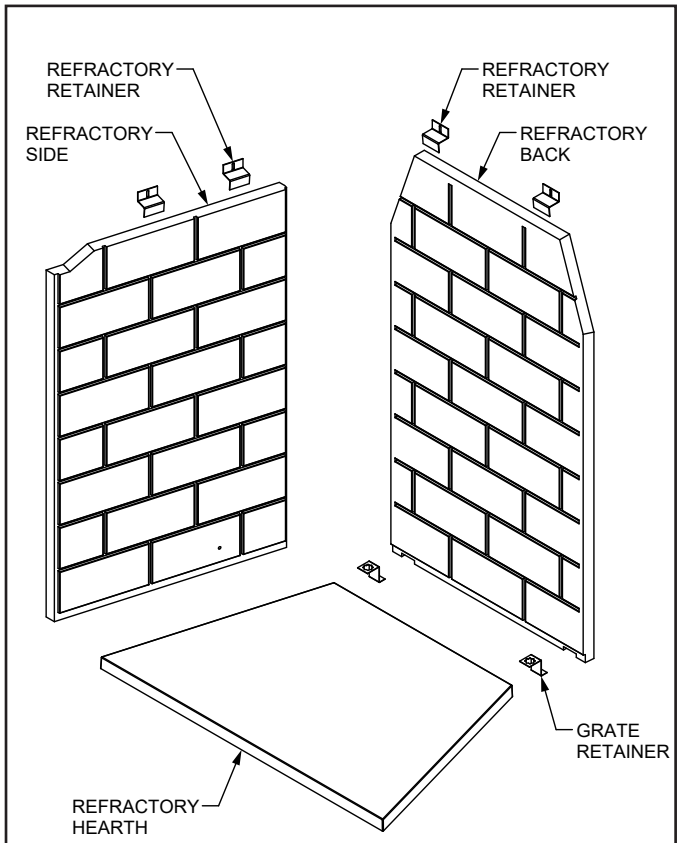


Figure 8.1 Traditional Refractory Panel

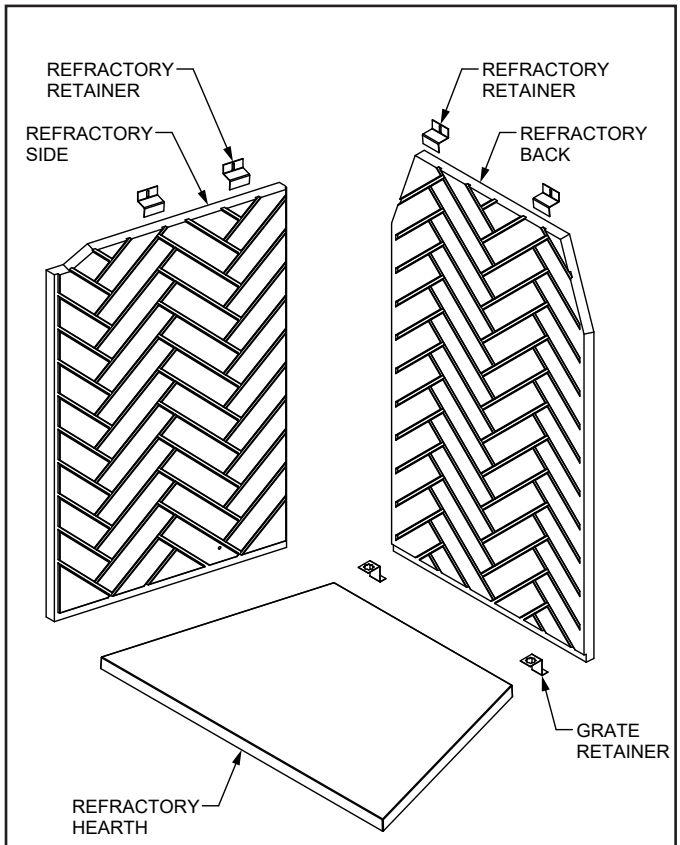


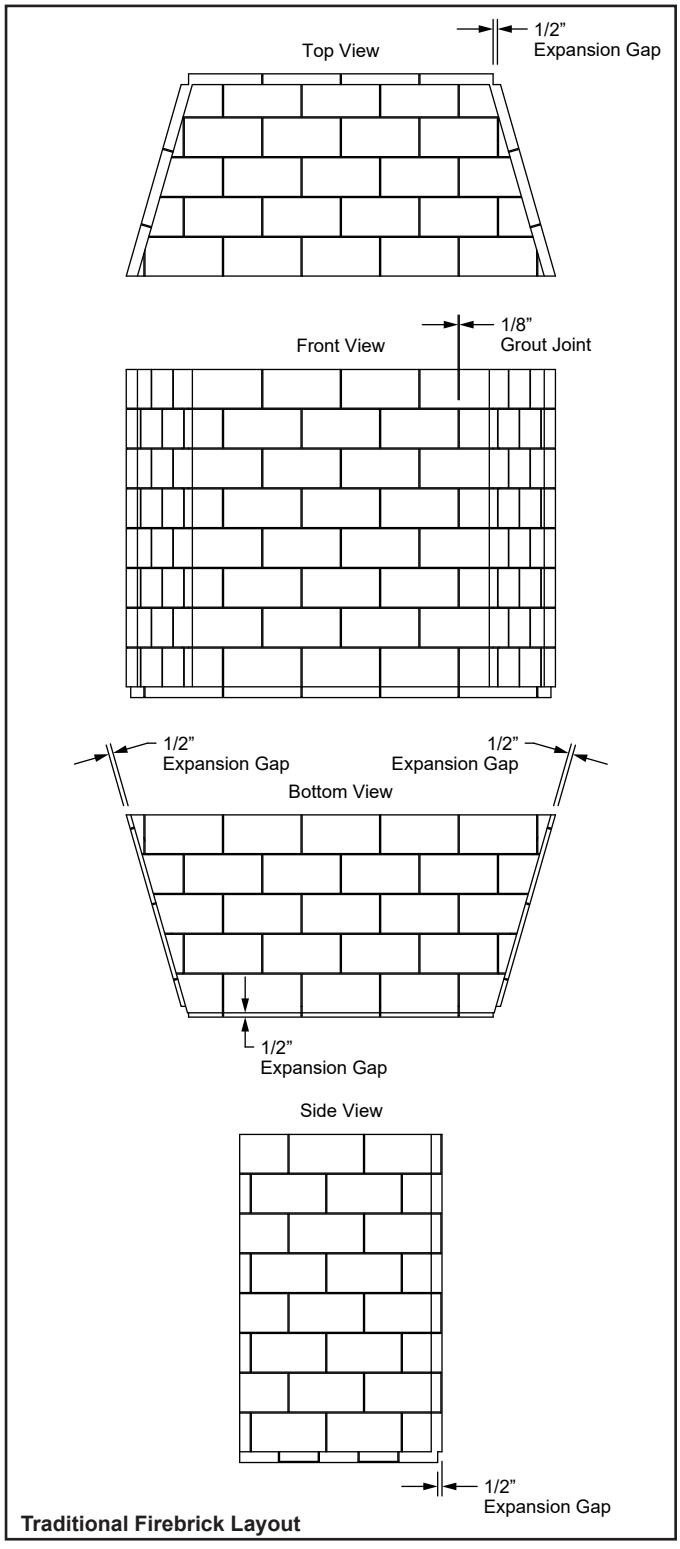
Figure 8.2 Herringbone Refractory Panel

E. Firebrick Installation

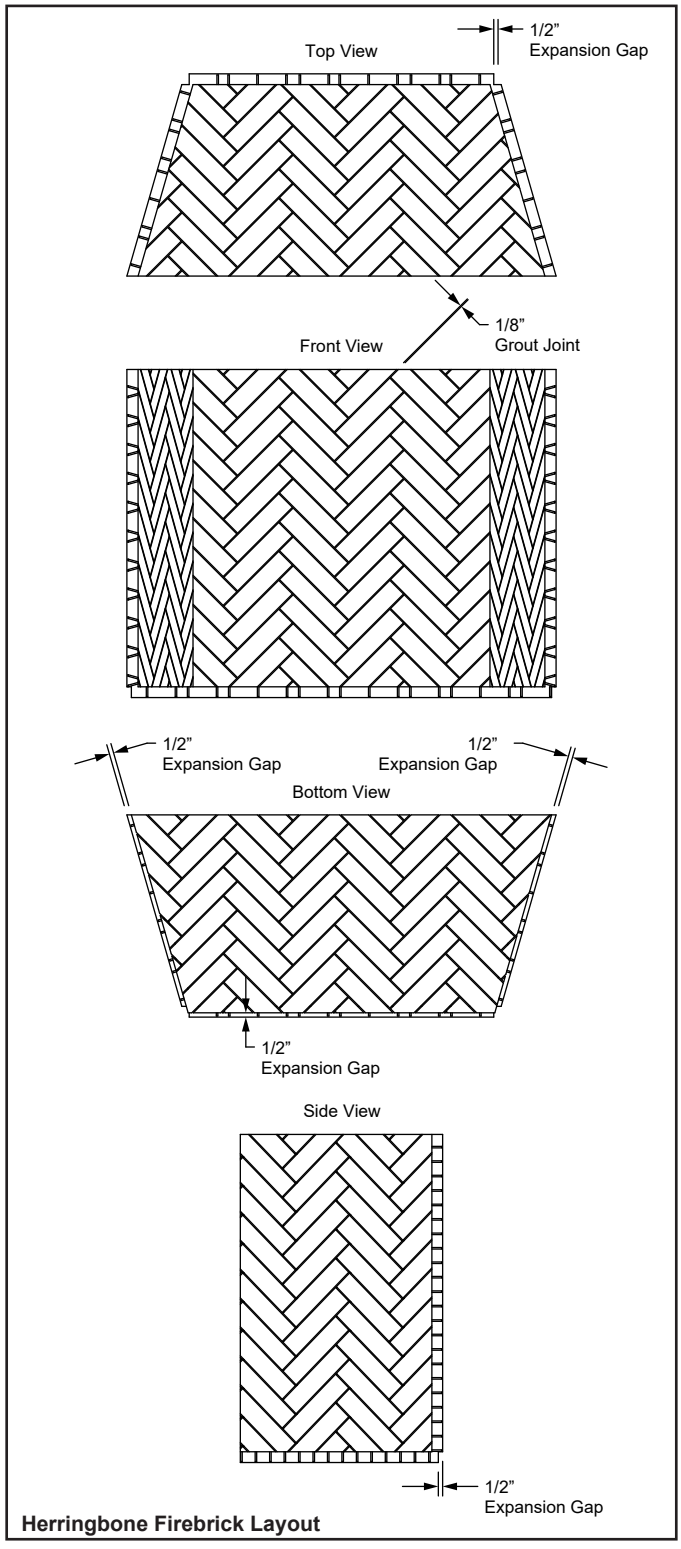
- The interior of the fireplace must be finished with either refractory panels or firebrick installed with mortar.
- Use an indoor/outdoor medium duty refractory mortar meeting ASTM C199. Firebrick must meet ASTM C27 and C1261. Also firebrick installation should comply with local and/or regional codes.
- It is highly recommended that firebrick be laid up by someone with masonry experience. It is recommended to interlace firebricks in the joint between the back and side walls. Use minimum 1/8” grout spacing. Some firebricks will need to be cut-to-size for proper fit-up.
- Mortar may be used to fill the leading edges of the side walls to the non-combustible fireplace facing material.
- Start installing firebrick at the front edge of the firebox floor and work toward the back. Leave 1/2” expansion gaps from firebrick to the firebox sides and back. These gaps will allow room for firebrick to expand during use and should not be filled with mortar. These expansion gaps will be hidden by back and side firebrick.
- Install firebrick against the back wall of the firebox. Leave 1/2” expansion gaps to the firebox sides.
- Install firebrick against both side walls of the firebox. Start installing firebrick from the front of the firebox.
- It is not unusual for installed firebrick to develop heat stress cracks in the firebrick or mortar.
- If installing an approved front or door, please double check the dimensions needed in the installation instructions to ensure the front or door will fit after the firebrick has been installed.

Firebrick and Mortar SKUs		
SKUs	**Firebrick Size**	**Color**
FB-ST-CM	**9”x4-1/2”x1-1/4”**	**Cream**
FB-SP-CM	**9”x2-1/4”x1-1/4”**	**Cream**
FB-ST-BK	**9”x4-1/2”x1-1/4”**	**Black**
FB-ST-RD	**9”x4-1/2”x1-1/4”**	**Red**
FB-SP-RD	**9”x2-1/4”x1-1/4”**	**Red**
MMMORTR (Need 3-5 buckets per unit)		

Firebrick Usage Estimates		
Firebox Size	**Qty of Split (ST) 9”x4-1/2”x1-1/4”**	**Qty of Soaps (SP) 9”x2-1/4”x1-1/4”**
36”	**100**	**190**
42”	**105**	**210**
50”	**125**	**230**



Traditional Firebrick Layout



Herringbone Firebrick Layout

F. Install Screens

- Lay one screen panel flat and slide the round end of the rod through the rings starting at the handle side of the screen. Leave the last ring off the rod.
- Insert the rod through the hole in the bracket. Slip the last ring over the rod on the other side of the bracket.
- Fasten the flat end of the screen rod back in place using the screw removed earlier.
- Repeat for the other screen panel.

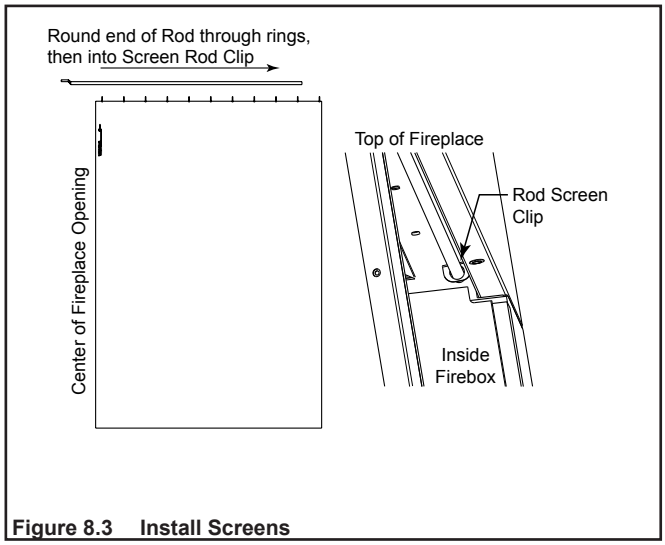


Figure 8.3 Install Screens

G. Install Mortar (Optional)

The brick panels have been designed for installation without the use of mortar being necessary. If the look of mortar is preferred, it is available and can be installed. Follow the directions on the container for mixing. Clean sparingly as paint will rub off and may need to be touched up. Touch up paint is available as an accessory.

Note: Herringbone refractory may require two buckets of mortar. The Traditional requires only one.

H. Grate

- Install the grate if a gas log set is not going to be installed.
- Position the rear gate legs into the grate retainers.

I. 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 a masonry hole saw of at least 1 in. (26 mm) must be used to make the hole at the gas line dimple location 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.*

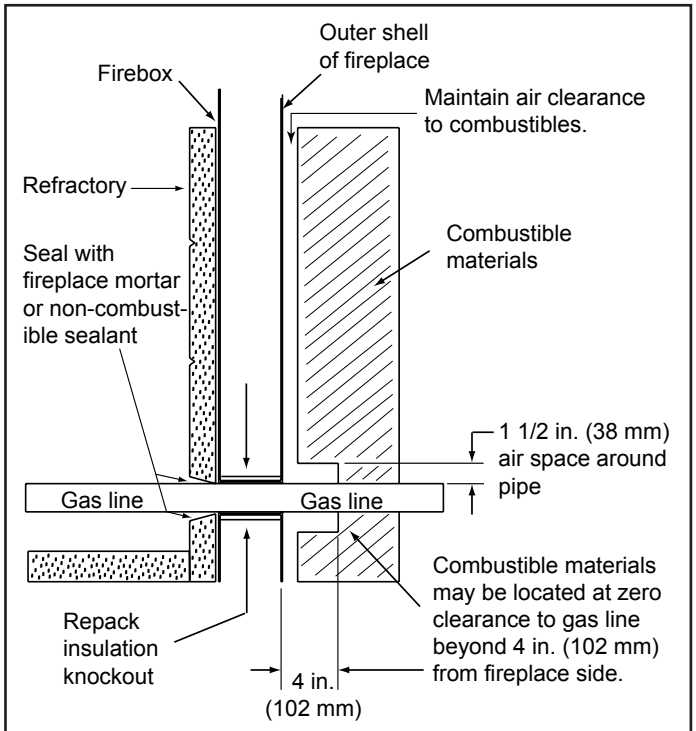


Figure 8.4 Gas Line Installation

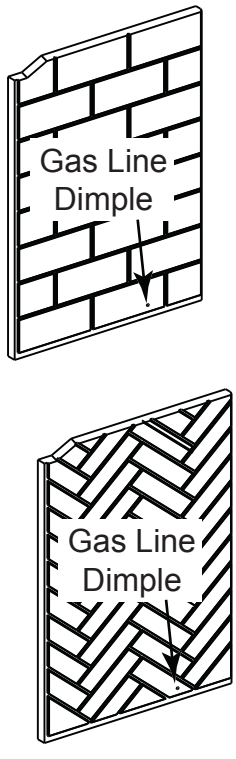


Figure 8.5 Gas Line Dimples

J. Wood Burning Inserts

WARNING! Risk of Fire! *Improper installation of wood inserts may cause fireplace or chimney system to overheat.*

If a wood burning insert is being installed in this fireplace, Hearth & Home Technologies recommends full reline of the chimney.

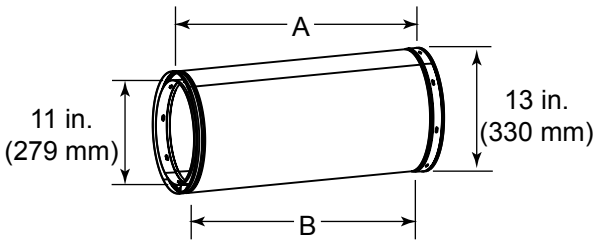
- Cooling air openings at the top of the chimney must not be obstructed in any manner.
- Hearth & Home Technologies recommends securing the reline at the top of the flue and using the cap certified for use with this fireplace system.

9 Reference Materials

A. Chimney Components

The following pictures show only those chimney components which may be safely used with this fireplace.

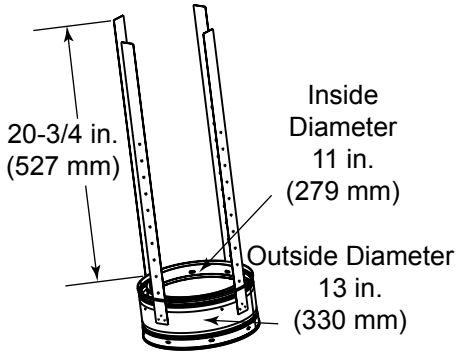
Catalog #	Description
CAK8A	Chimney Air Kit
ID4/ID6	Insulated Duct/Outside Air
UD4/UD6	Uninsulated Duct/Outside Air
SL1106	Chimney Section - 6 in. (152 mm) long
SL1112	Chimney Section - 12 in. (305 mm) long
SL1118	Chimney Section - 18 in. (457 mm) long
SL1136	Chimney Section - 36 in. (914 mm) long
SL1148	Chimney Section - 48 in. (1219 mm) long
SL11	Chimney Stabilizer
SL1130	Chimney Offset/Return - 30 deg
FS538	Ceiling Firestop - Straight
FS540	Ceiling Firestop - 30 deg
AS10	Straight Attic Shield, 24 in. (610 mm)
JB577	Chimney Joint Band
CB576	Chimney Bracket
RF570	Roof Flashing - Flat to 6/12 Pitch
RF571	Roof Flashing - 6/12 to 12/12 Pitch
TR11	Round Termination Cap
TR11T-B	Round Telescoping Termination Cap
TCT1175	Terra Cotta Termination Cap
ST1175	Square Termination Cap
TR-TVK	TR Top Vent Kit
DTO134-BK	Short Octagon Decorative Cap - Black
DTO134-CP	Short Octagon Decorative Cap - Copper
DTO146-BK	Tall Octagon Decorative Cap - Black
DTO146-CP	Tall Octagon Decorative Cap - Copper
DTS134-BK	Short Square Decorative Cap - Black
DTS134-CP	Short Square Decorative Cap - Copper
DTS146-BK	Tall Square Decorative Cap - Black
DTS146-CP	Tall Square Decorative Cap - Copper
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 Term. Cap”)
CT-11A-B	Adapter-May be used with the following caps



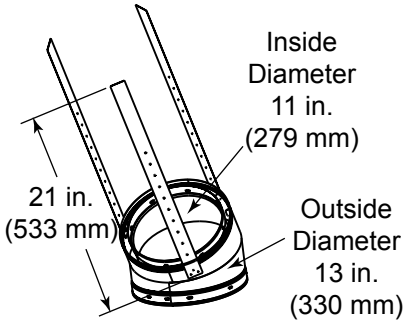
Chimney Sections

Catalog #	A		B	
	in	mm	in	mm
SL1106	6	152	4-3/4	121
SL1112	12	305	10-3/4	273
SL1118	18	457	16-3/4	425
SL1136	36	914	34-3/4	883
SL1148	48	1219	46-3/4	1187

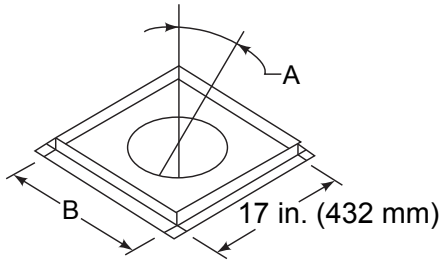
A = Actual Length
B = Effective Length (length of chimney part after it has been snapped to another)



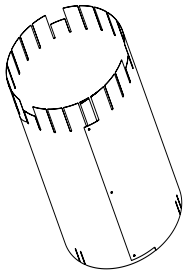
SL11 Chimney Stabilizer



SL1130 Offset/Return

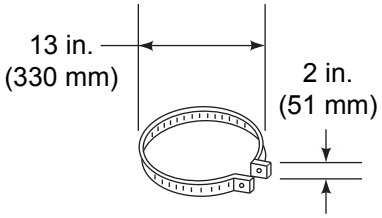


Catalog #	A	B	
FS538	0-deg.	17 in.	432 mm
FS540	30-deg.	26 in.	660 mm

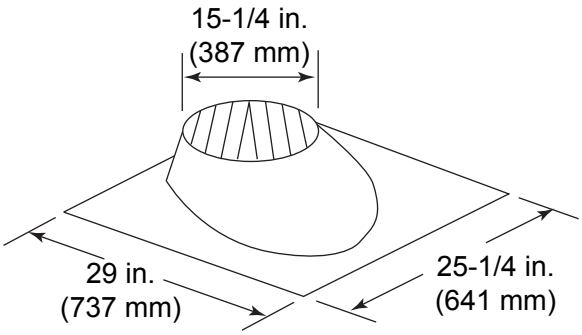


Assembled
Diameter: 17 in./432 mm
Height: 24 in./610 mm

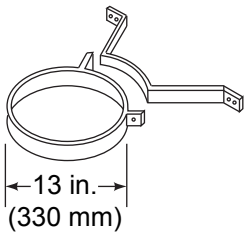
AS10 Straight Attic Insulation Shield



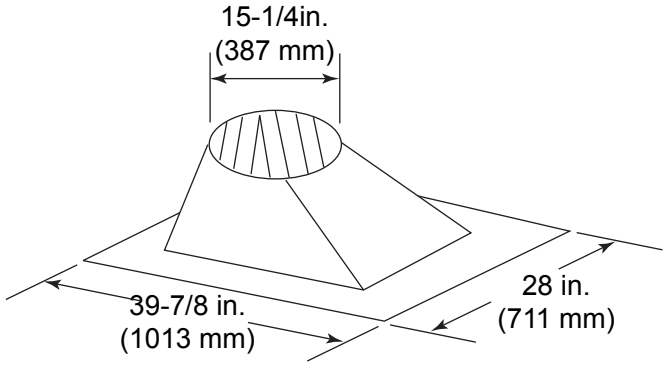
JB577 Chimney Joint Band



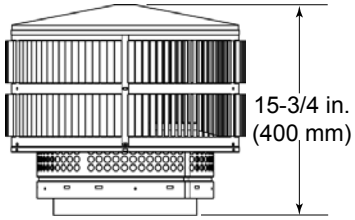
RF570 Roof Flashing



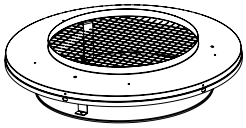
CB576 Chimney Bracket



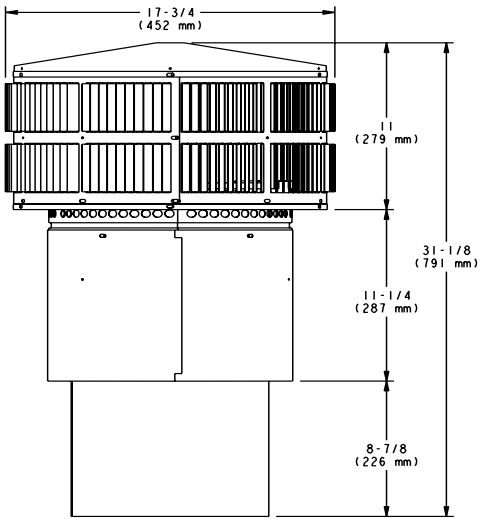
RF571 Roof Flashing



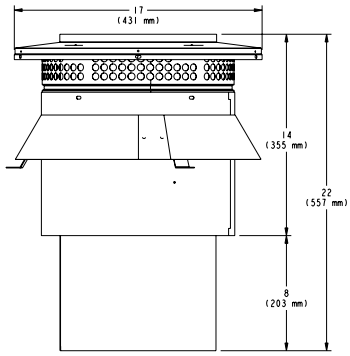
TR11 - Round Termination Cap



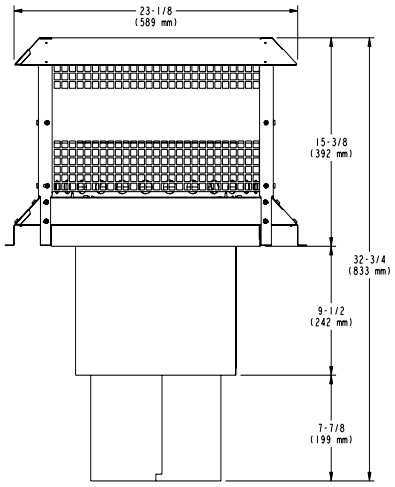
TR-TVK



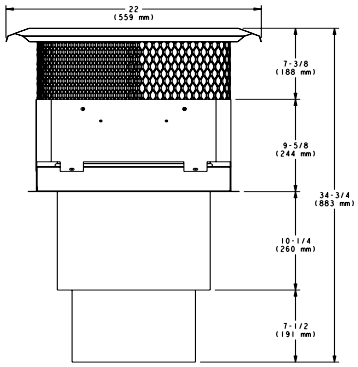
TR11T - Round Telescoping Termination Cap



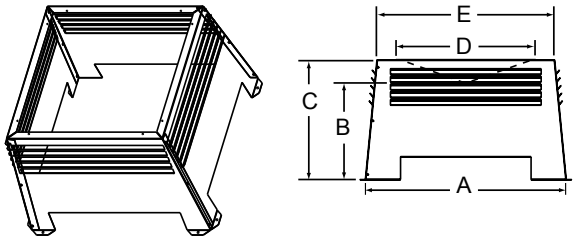
CT11-A Adapter



ST1175 - Square Termination Cap

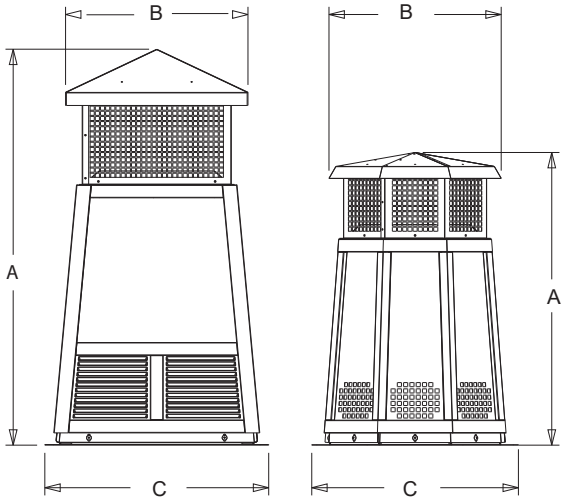


TCT1175 - Terra Cotta Cap



LDS-BV Decorative Shroud

Catalog #		A	B	C	E	E
LDS-BV	*in.*	26	12.5	15.5	22	23
	mm	660	318	394	533	584

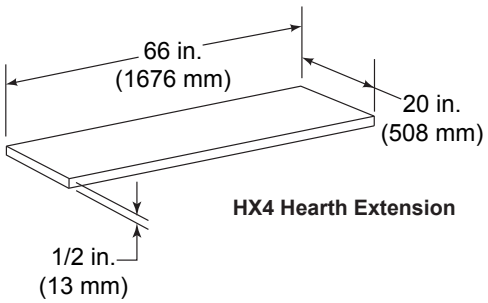


DTS134/146-BK/CP **DTO134/146-BK/CP**
Decorative Caps

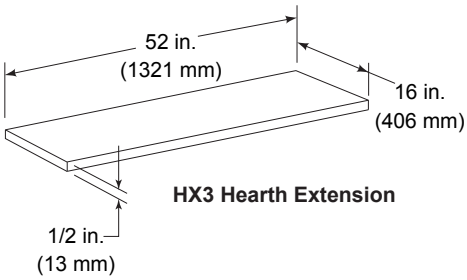
DTO134-BK/CP		A	B	C
	in	34	20	24
	mm	864	508	610
DTO146-BK/CP				
	in	46	22-3/4	26
	mm	1168	577	660

DTS134-BK/CP		A	B	C
	in	34	21-3/16	24
	mm	864	538	610
DTS146-BK/CP				
	in	46	21-3/16	26
	mm	1168	538	660

B. Optional Components

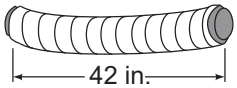


HX4 Hearth Extension

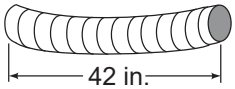


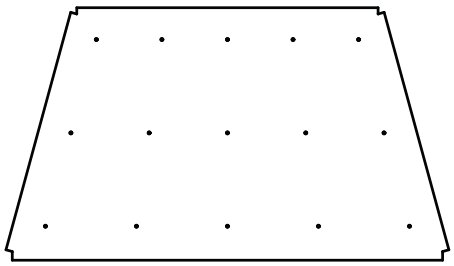
HX3 Hearth Extension

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

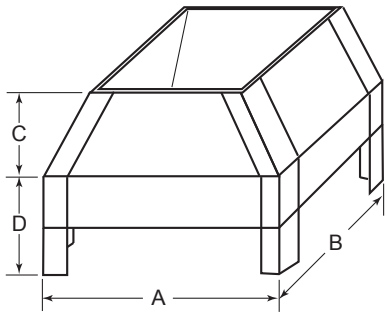


UD6 Uninsulated Duct 6 in. (152 mm) i.d.





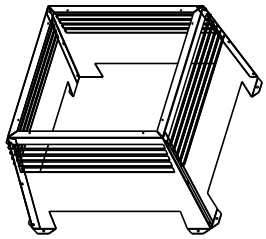
ODCASTLEWD-42DP Drain Pan

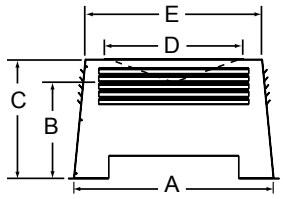


LDS33/LDS46 Decorative Shroud

Catalog #	A		B		C		D	
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*
LDS33	36	914	36	914	8.5	216	11	279
LDS46	48	1219	72	1829	8.5	216	11	279

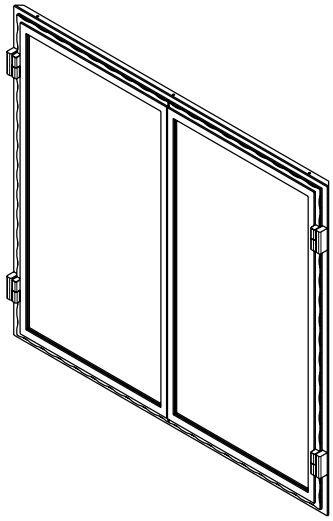
LDSCP-M - Corner Post Kit (for custom sizes)





LDS-BV Decorative Shroud

Catalog #		A	B	C	E	E
LDS-BV	*in.*	26	12.5	15.5	22	23
	mm	660	318	394	533	584



ODGF42BZ-B Glass Doors (optional)

See your Outdoor Lifestyles dealer for a complete list of optional components.

Outdoor Lifestyles, a brand of Hearth & Home Technologies
7571 - 215th Street West, Lakeville, MN 55044
www.hearthnhome.com

Please contact your Outdoor Lifestyles dealer with any questions or concerns.
For the location of your nearest Outdoor Lifestyles dealer, please visit www.hearthnhome.com.