

Installation Manual

Installation and Fireplace Setup

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

OWNER: Retain this manual for future reference.

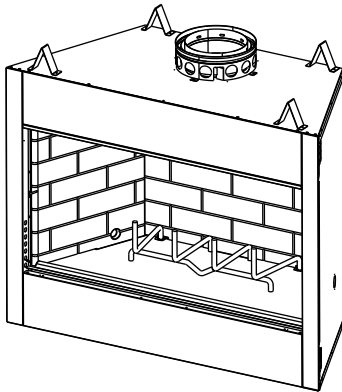
NOTICE: DO NOT discard this manual!

heatilator
The first name in fireplaces

Model(s):

MEL36

MEL42



WOODBURNING FIREPLACE
Manufactured Home Approved

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends 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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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 manufactured homes, except in sleeping rooms.

If installed with a gas log set, provisions for the National Fuel Gas Code must be met.

This fireplace complies with the installation requirements for HUD.

CAUTION! The structural integrity of the manufactured home floor, wall, and ceiling/roof must be maintained.

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 unvented gas log set*
- *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

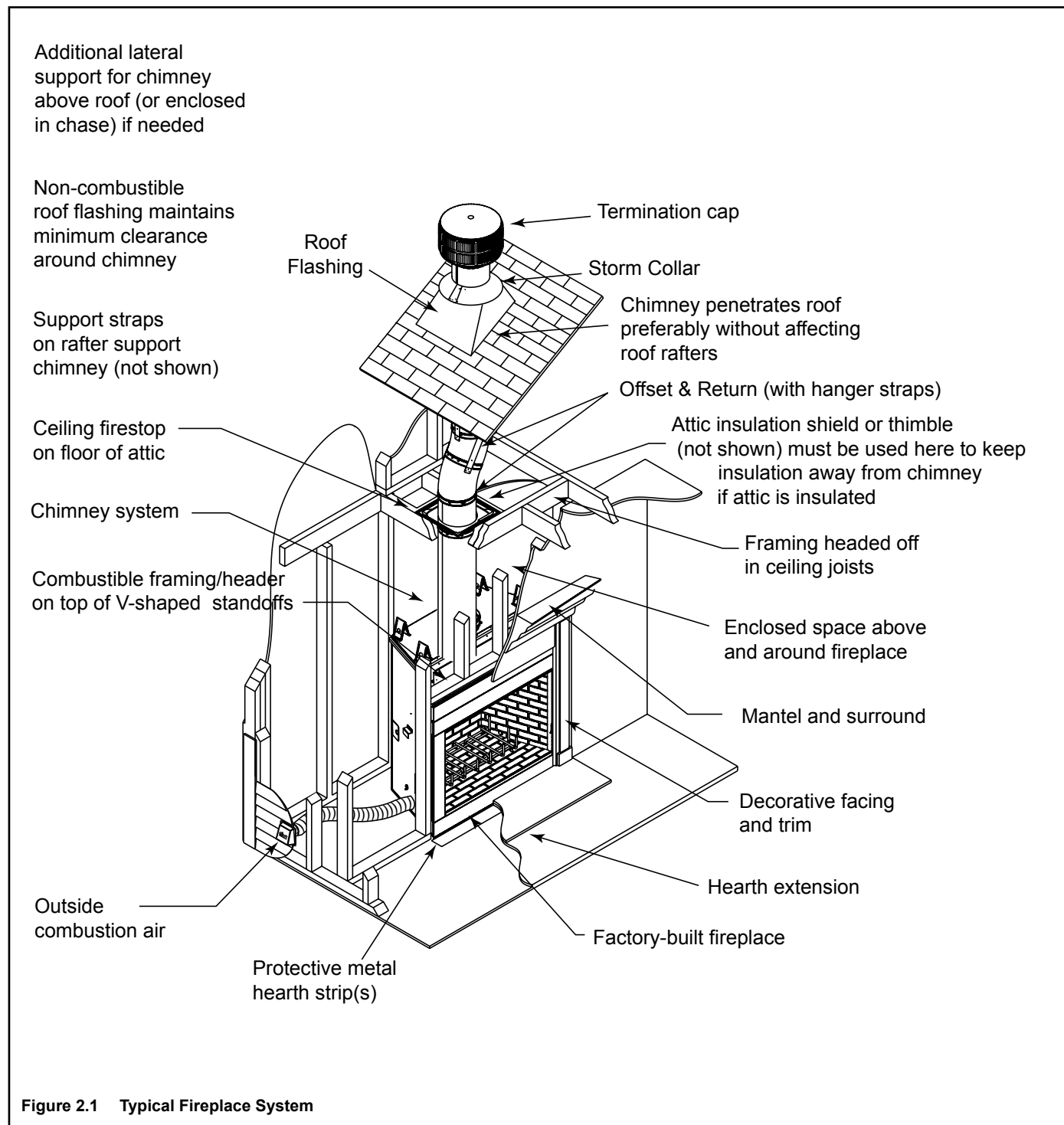
- Materials which will not ignite and burn, composed of any combination of the following:
 - Steel
 - Brick
 - Concrete
 - Glass
 - Iron
 - Tile
 - Slate
 - Plasters
- Materials reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials, in a Vertical Tube Furnace at 750° C**

C. Combustible Materials

- Materials made of or surfaced with any of the following materials:
 - Wood
 - Plant fibers
 - Plywood/OSB
 - Compressed paper
 - Plastic
 - 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



B. Design and Installation Considerations

NOTICE: Check building codes prior to installation.

- Installation **MUST** comply with applicable 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.

Note: A raised hearth extension built flush with the fireplace opening or less than 4 in. (102 mm) below the fireplace opening requires the fireplace be installed on a non-combustible surface.

outlets or returns, or other locations of considerable air movement can affect the performance.

Outside air must be used for combustion. This fireplace comes equipped with the necessary components. 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.

1. Selecting Fireplace Locations

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

Locating the fireplace in a basement should be avoided.

Locating near frequently opened doors, central heat

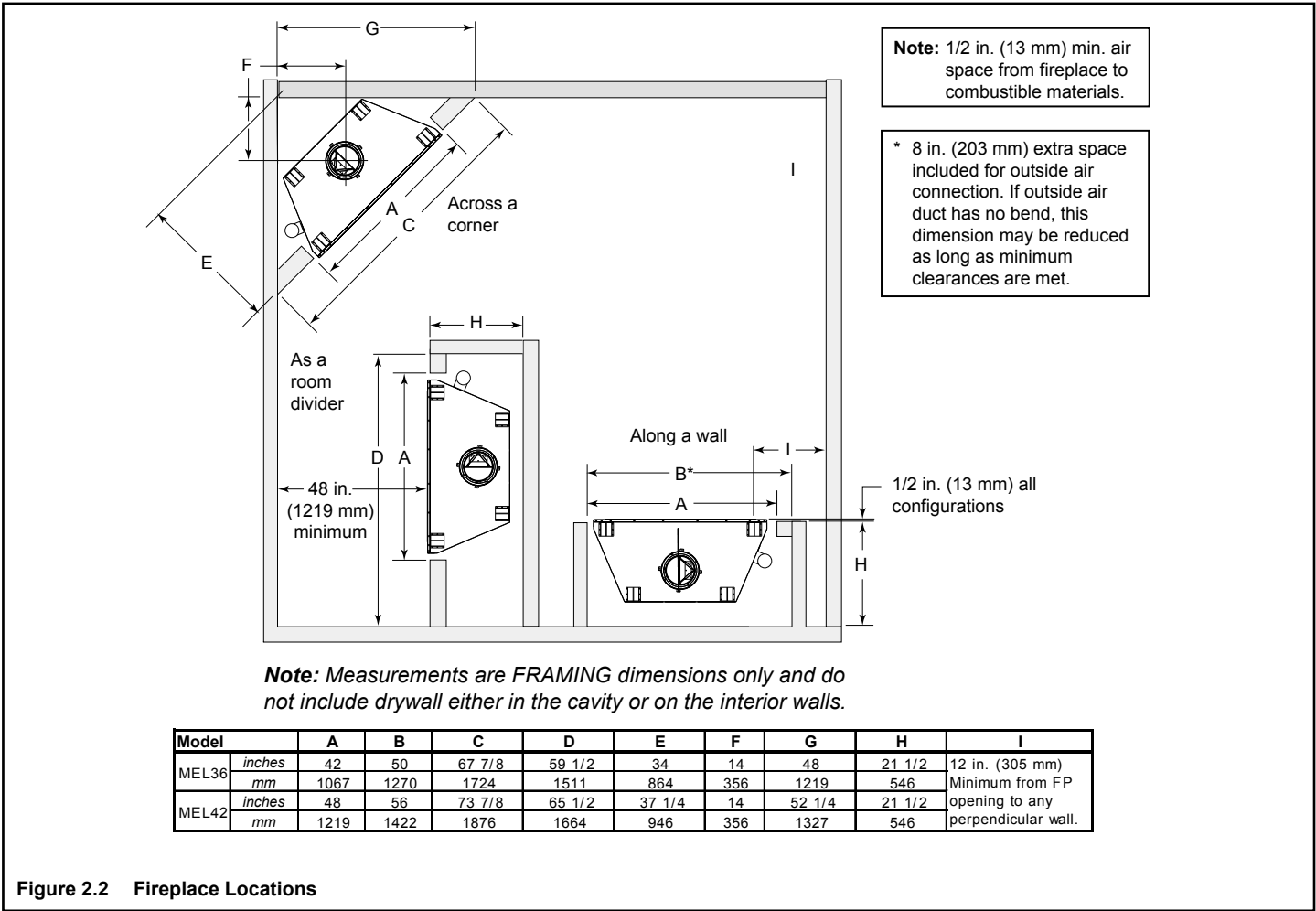


Figure 2.2 Fireplace Locations

2. Locating Fireplace & Chimney

Location of the fireplace and chimney will affect performance. To reduce spillage of combustion products into the living space avoid:

- Install within the warm airspace enclosed by the building envelope. This helps to produce more draft, especially during lighting and die-down of the fire.
- Penetrate the highest part of the roof. This minimizes the effects of wind loading.
- Minimize the use of chimney offsets.
- Consider the fireplace location relative to floor and ceiling and attic joists.

Negative pressure in the structure can cause spillage of combustion products into the living space. To minimize effects of negative pressure:

- 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.

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 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)
 - Glass Doors (included with fireplace)
- Outside Air System
 - Air Inlet (included with fireplace)
 - Flex (required, included with fireplace)
- Chimney System
 - Chimney air kit (required in Canada, sold separately)
 - Chimney termination cap (required, sold separately)
 - MH Thimble Kit (required, sold separately)
- Non-combustible finish material

3 Framing and Clearances

A. Fireplace Dimensions

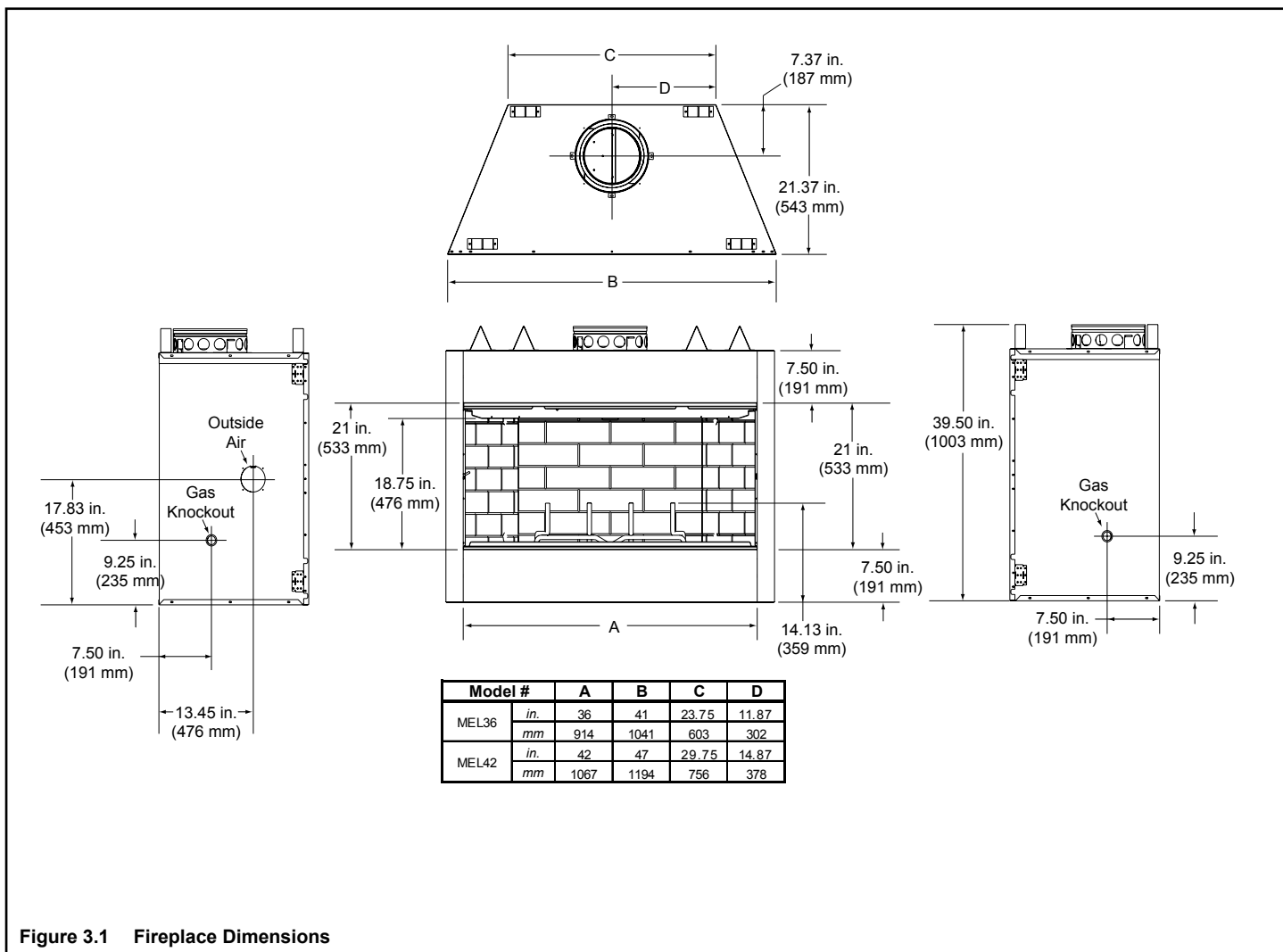


Figure 3.1 Fireplace Dimensions

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

WITHIN ENCLOSURE AREA	
Fireplace to backwall	1/2 in. (13 mm)
Fireplace to sidewall	1/2 in. (13 mm)
Top standoffs to header	0 in. (0 mm)
Door opening to sidewall	12 in. (305 mm)
MANTEL	
Mantel minimum height	12 in. (25 mm) from top of opening
Maximum mantel depth	12 in. (305 mm)

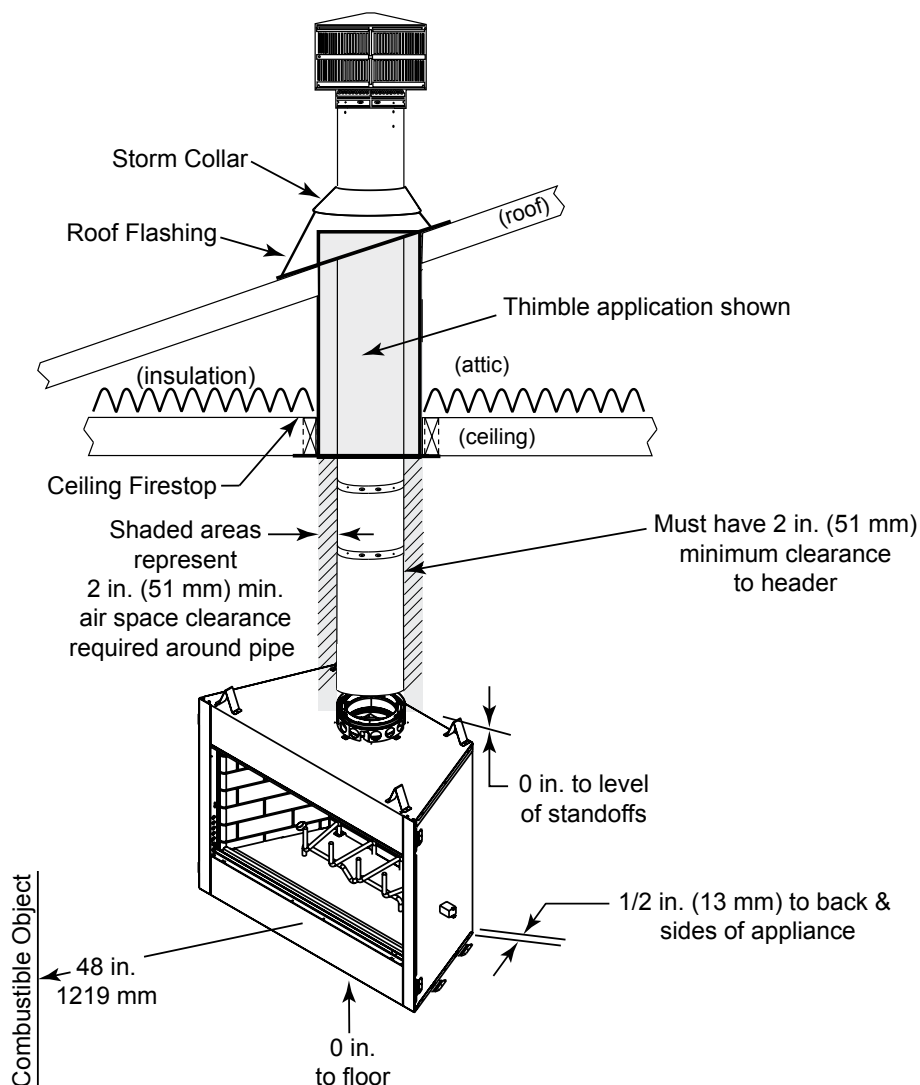


Figure 3.2 Clearances to Combustible Materials

C. Frame the Fireplace

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

WARNING! Risk of Fire! A hearth extension built flush with the fireplace opening or less than 4 in. (102 mm) below the fireplace opening requires the fireplace be installed on a non-combustible surface.

Figure 3.3 shows a typical framing 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.

The finished cavity depth must be no less than 21 1/2 in. (546 mm) from the finished backwall to the outside of front wall framing.

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

- A minimum 1/2 in. (13 mm) air clearance must be maintained at the back and 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.
- Clearance of Radiation Shield thimble to chimney is set at 1 1/2 in. (38 mm)

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.

D. 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 and 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.

The fireplace must be secured to the manufactured housing structure to prevent the fireplace from shifting during transportation. This can be done by securing through the nailing flanges on the sides of the fireplace and tabs on the bottom pan.

CAUTION! The structural integrity of the manufactured housing floor, wall, ceiling and roof must be maintained.

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.

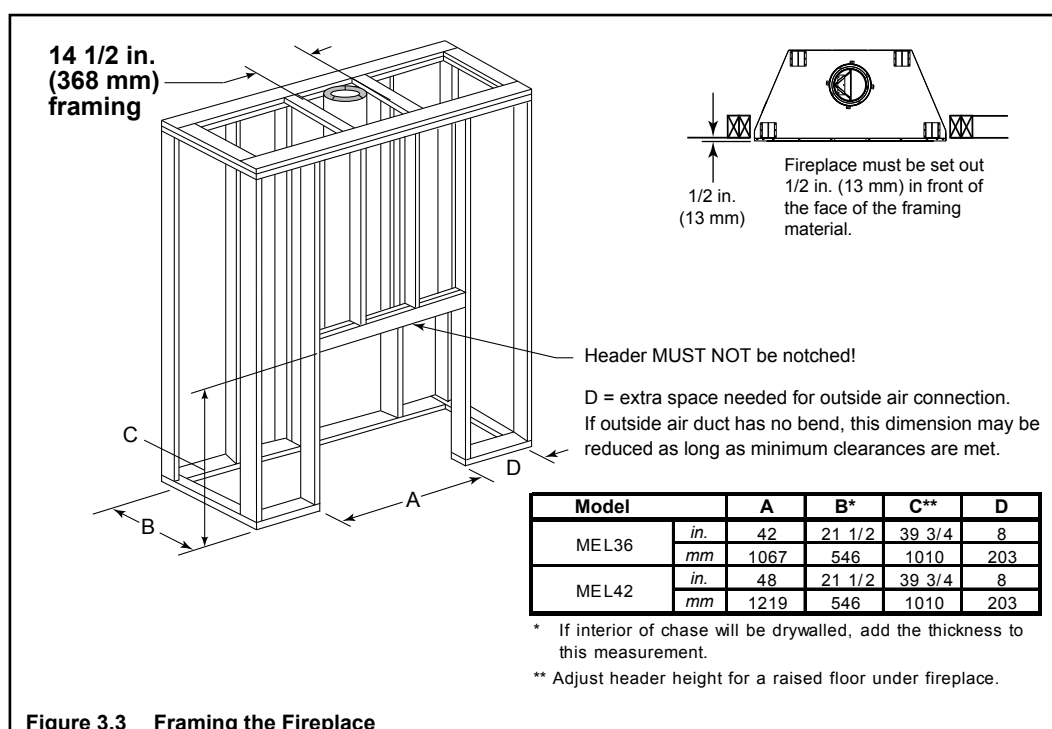
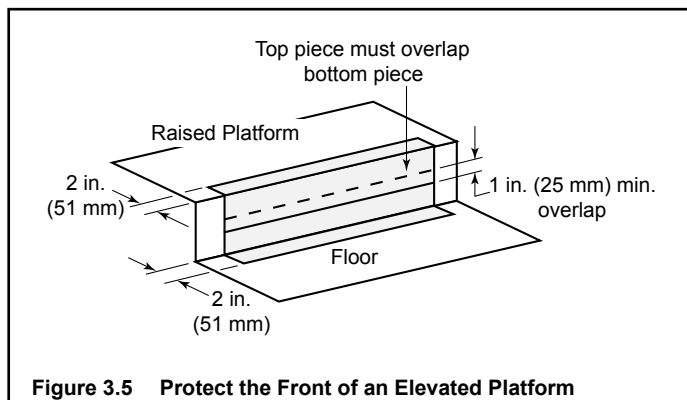
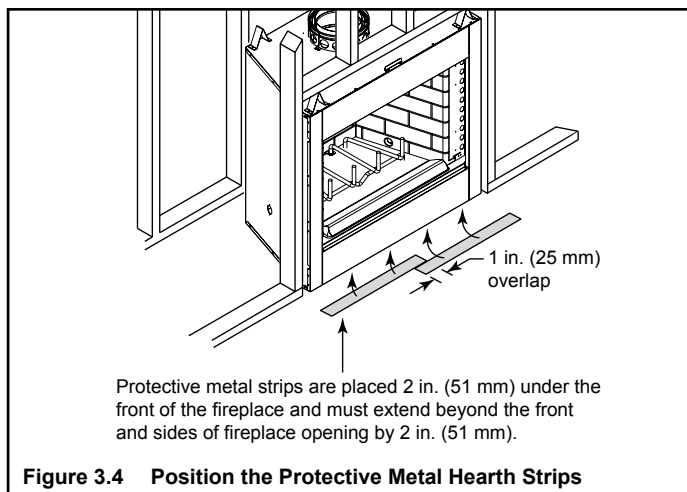


Figure 3.3 Framing the Fireplace

E. 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.

- 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 3.4).
- Protect the front of a platform elevated above the hearth extension with metal strips (not included with fireplace) per Figure 3.5. See Section 7 for hearth extension instructions.

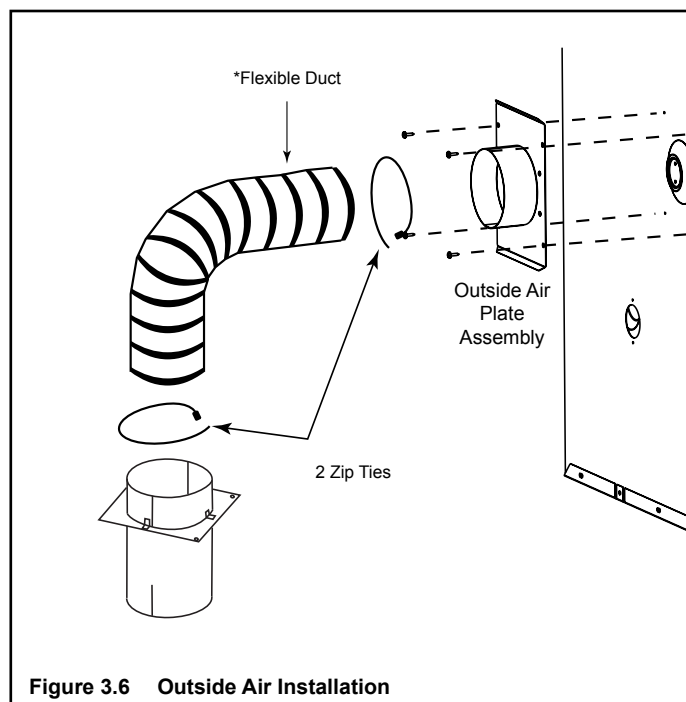


F. Install Outside Air Kit

- Outside air kit is required in a manufactured housing fireplace installation.
- Keep duct runs short and straight to minimize restriction.
- A small dip is acceptable for a cold air trap.
- The outside air kit must be installed on the left side of the fireplace.
- The inlet tube assembly provided can be installed through the floor into a ventilated crawl space as shown in Figure 3.6.
- An outside air hood is available to install through the side of the house.
- The air duct may be run vertically terminate and at least 3ft. (.91m) below the top of the uppermost chimney section.

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 hood close to exhaust vents or chimneys. Fumes or odor could be drawn into the room through the fireplace.
- Locate outside air inlet to prevent blockage from leaves, snow/ice, or other debris. Blockages could cause combustion air starvation.



***Use UL181 Class O or Class 1 rigid or flexible ducting.**

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	13 ft	3.96 m
Minimum height with single offset/return	14.5 ft	4.42 m
Double offset/return minimum height	20 ft	6.1 m
Maximum height	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

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

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

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

Table 4.2 Chimney Component Dimensions

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

* Dimensions reflect effective height.

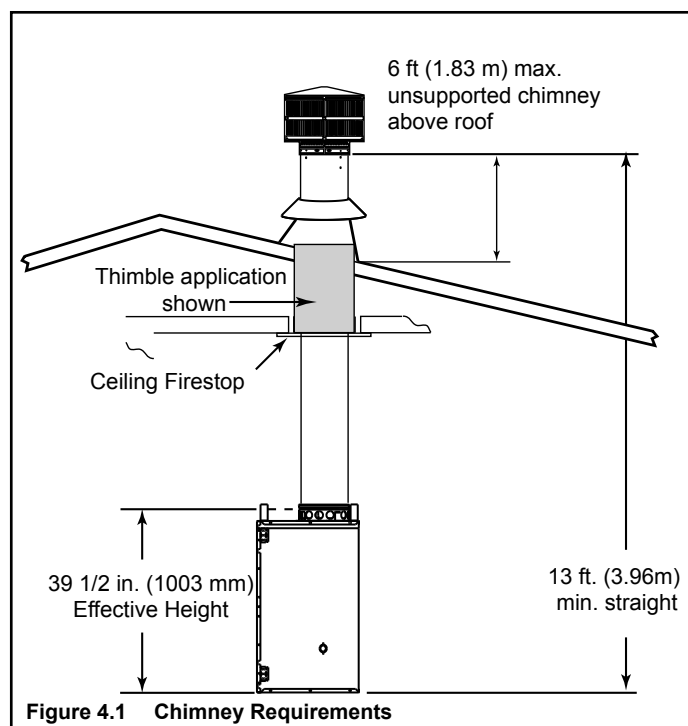


Figure 4.1 Chimney Requirements

B. Offsets/Returns

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

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

- Measure the shift needed to avoid the overhead obstruction. Refer to dimension A in Figure 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.

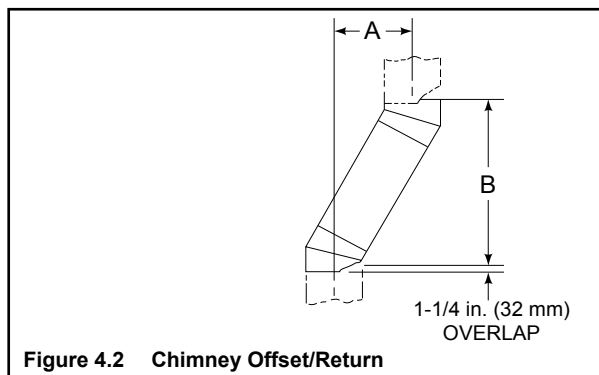


Figure 4.2 Chimney Offset/Return

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 14-1/2 in. (368 mm) using a 30° offset/return.

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

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

Table 4.3 Offset Dimensions

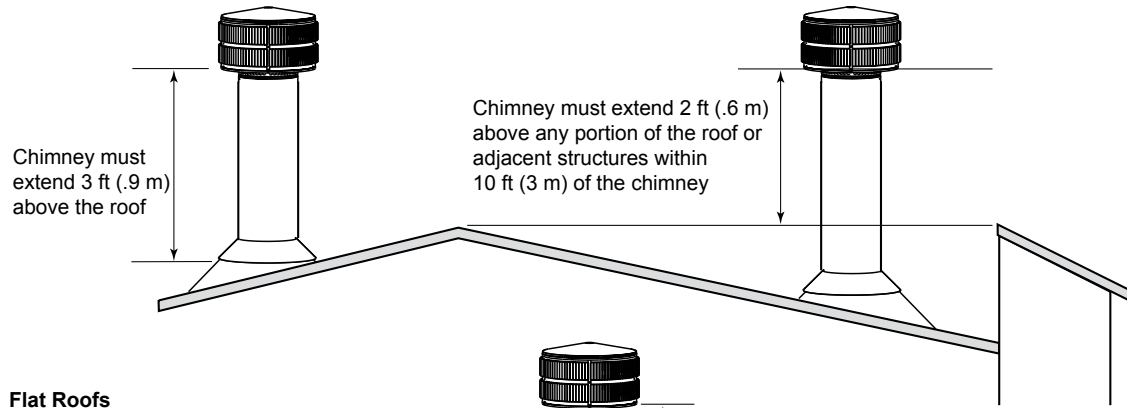
15-degree				30-degree				SL306	SL312	SL318	SL324	SL336	SL348
A		B		A		B							
in.	mm	in.	mm	in.	mm	in.	mm						
1 5/8	41	13 3/8	340	3 5/8	92	15 1/2	394	-	-	-	-	-	-
2 7/8	73	17 3/4	451	5 1/2	140	18 5/8	473	1	-	-	-	-	-
4 1/8	102	22 3/8	568	7 1/4	184	21 3/4	552	2	-	-	-	-	-
4 1/2	114	23 5/8	600	8 1/2	216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

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

C. Termination Requirements

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

Slanted Roofs



Flat Roofs

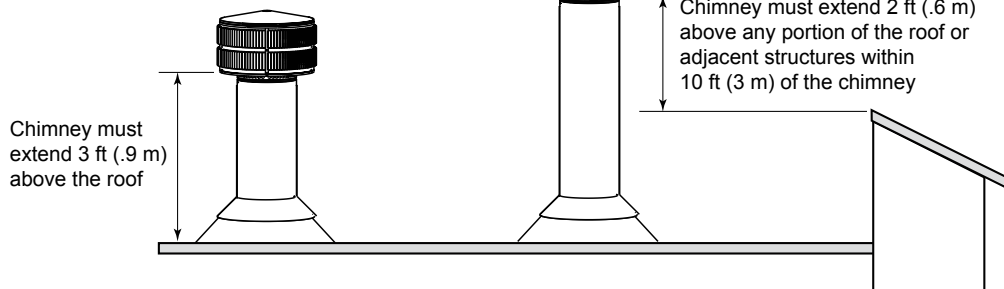
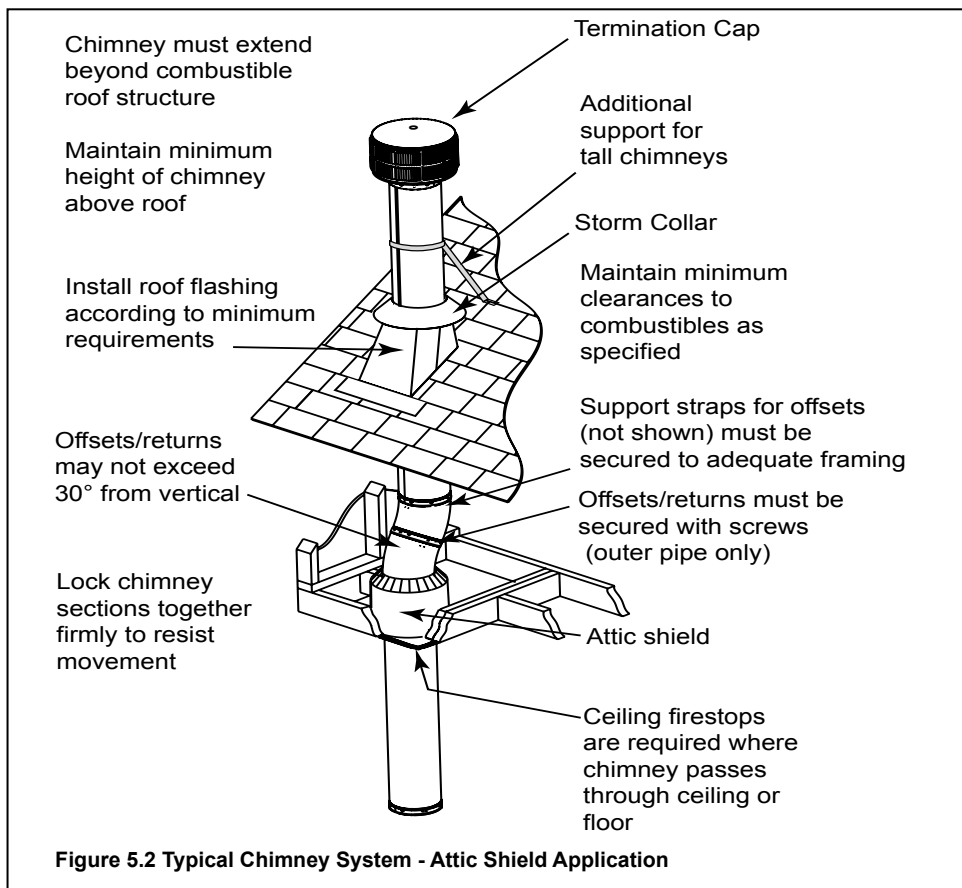
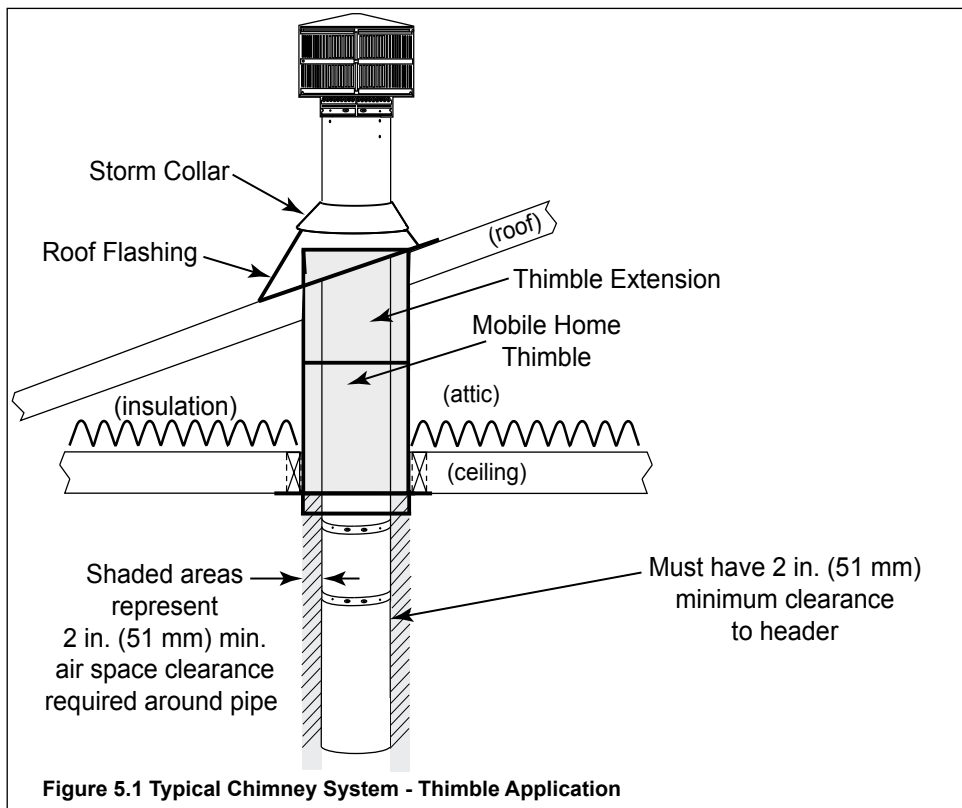


Figure 4.3 Termination Cap Locations

5 Chimney Installation

A. Typical Chimney System



B. Assemble Chimney Sections

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

- Use only those components described in this manual. Substitute or damaged chimney components could impair safe operation and cause overheating and fire.
- Support 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.
- Attach a straight chimney section or an offset to the top of the fireplace.
- Place inner flue to the inside of the chimney section below it. Place the outer casing outside the outer casing of the chimney section below it. Refer to Figure 5.3.

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. Insert the screws through the predrilled holes. 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).

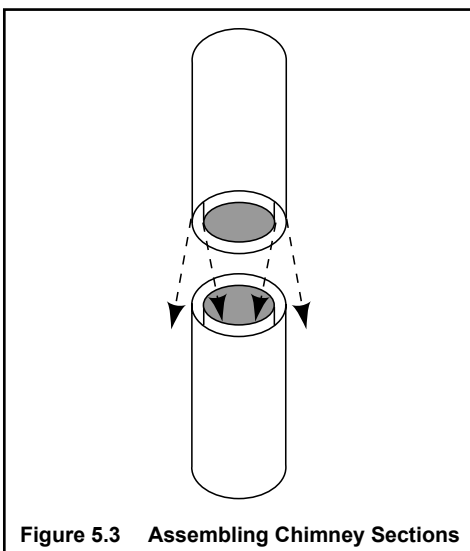


Figure 5.3 Assembling Chimney Sections

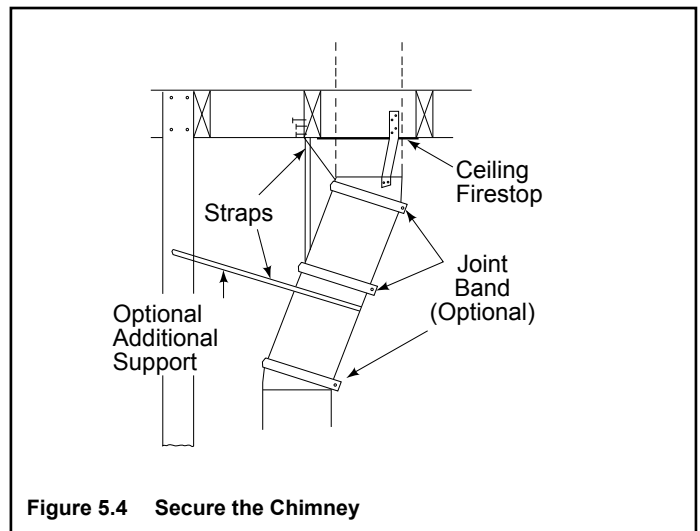


Figure 5.4 Secure the Chimney

C. Roof Penetration

- Refer to Figure 5.5.
- Plumb from roof to center of chimney.
- Drive a nail up through roof to mark center of pipe.
- Measure to either side of nail and mark the 14-1/2 in. x 14-1/2 in. (368 mm x 368 mm) opening required.
- Measure opening on the horizontal; actual length may be larger depending on roof pitch.
- Cut out and frame opening.
- Refer to local codes for roof framing details.

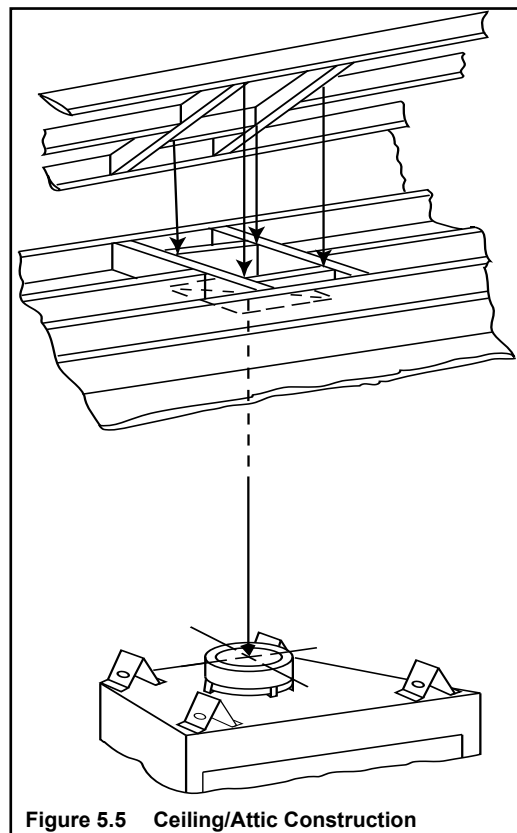


Figure 5.5 Ceiling/Attic Construction

D. Thimble Installation

ATTIC INSULATION SHIELD NOT REQUIRED WHEN THIMBLE APPLICATION IS USED.

- The thimble must extend completely through the roof structure shielding combustible materials. **Five location holes have been provided to allow for a variety of ceiling/roof thicknesses.** The thimble extension is required when the ceiling/roof thickness exceeds 12 1/2 in. The extension should overlap the thimble 1 in.
- Drill 1/8 in. holes through the outer shield of the thimble using the predrilled holes in the extension as guides. Attach the extension to the thimble using the screws provided with the extension.
- Install the thimble assembly and nail/screw it securely to the framing members.
- Center the flashing over the chimney and fasten it appropriately to the roof using nails or screws. 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/screw heads must be caulked with a roofing sealant.
- Finish assembling the chimney, storm collar and termination cap following the installation instructions provided with them.

NOTE: 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.

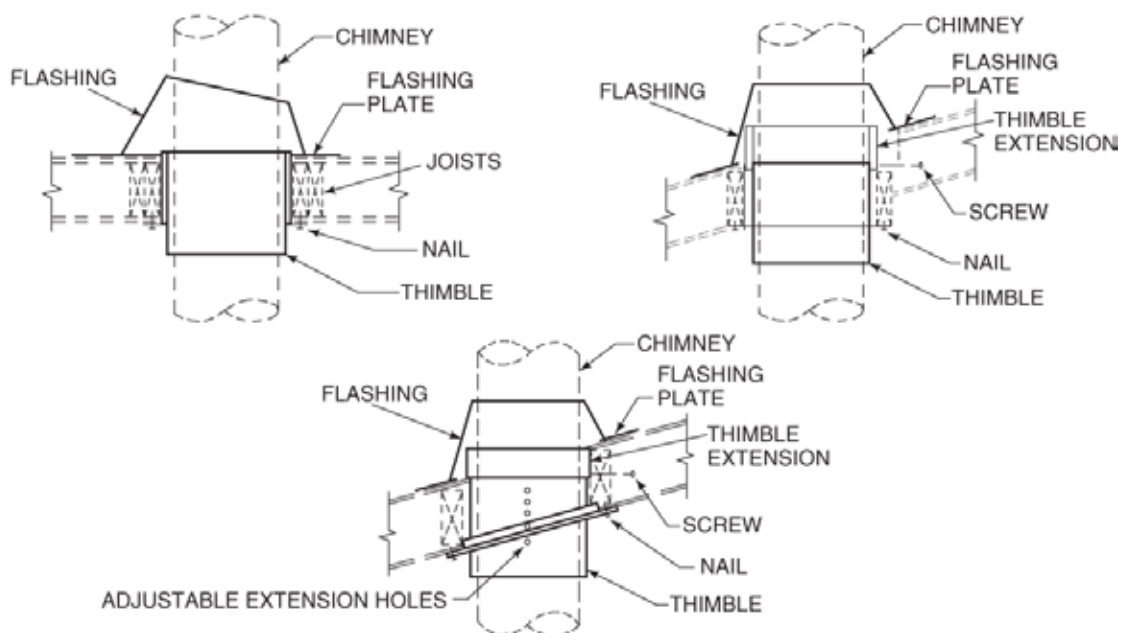


Figure 5.6 MH Installation

If the attic space is ventilated and the fireplace system height from floor to the flue outlet of the termination is 13'6" or more, it is not necessary to use the Thimble and extend the radiation shield into the roof flashing. The installation can be done as a normal residential installation using the standard firestop attic shield.

E. Install Ceiling Firestops

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

- 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 5.7.
- 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. Attic Insulation Shield Installation

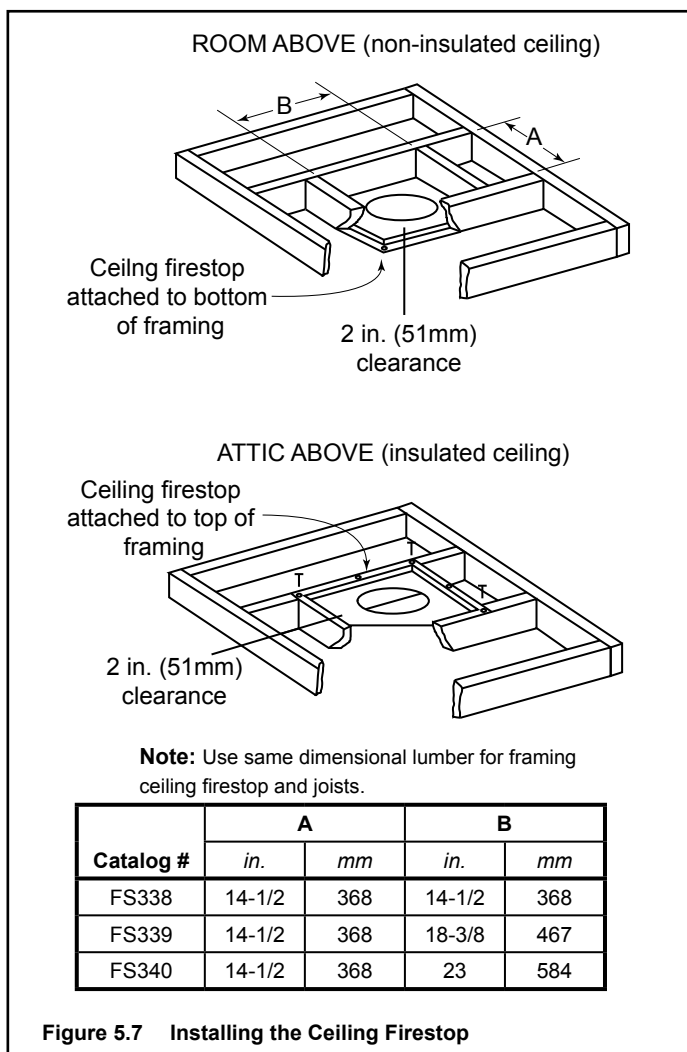
WARNING! Risk of Fire! You **MUST** install an attic insulation shield when there is any possibility of insulation or other combustible material coming into contact with the chimney.

THIMBLE APPLICATION NOT REQUIRED WHEN ATTIC INSULATION SHIELD IS USED.

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

Installation of a ceiling firestop is required:

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



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

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

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

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

Double-check the Chimney Assembly

Continue assembling the chimney sections up as needed. While doing so, be aware of the height and unsupported chimney length limitations given under Section 4.

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. Termination Cap Installation

- Install a cap approved and listed for this fireplace system.
- 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).

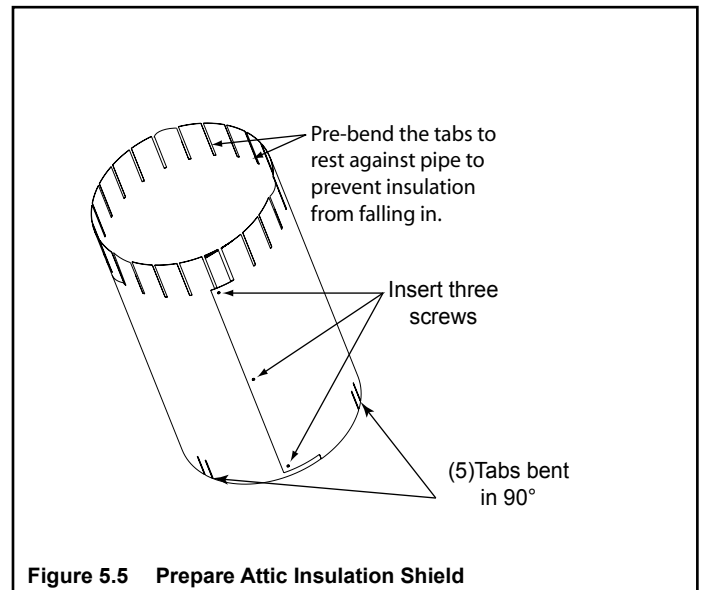


Figure 5.5 Prepare Attic Insulation Shield

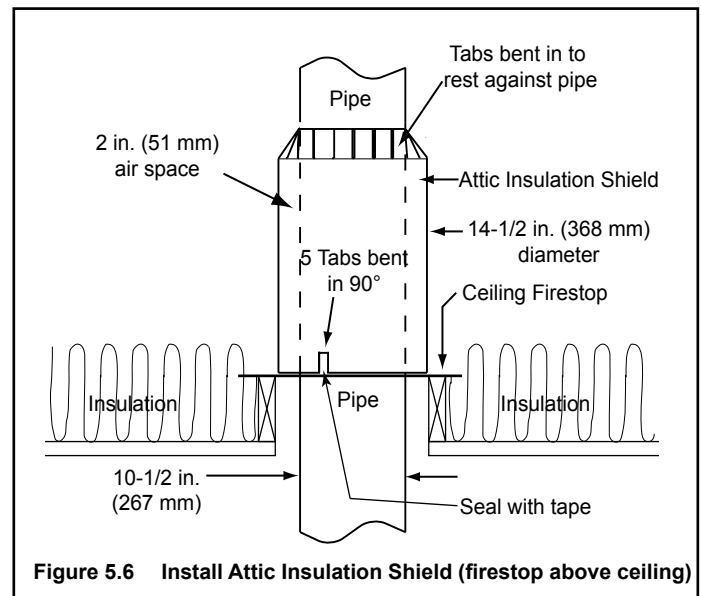


Figure 5.6 Install Attic Insulation Shield (firestop above ceiling)

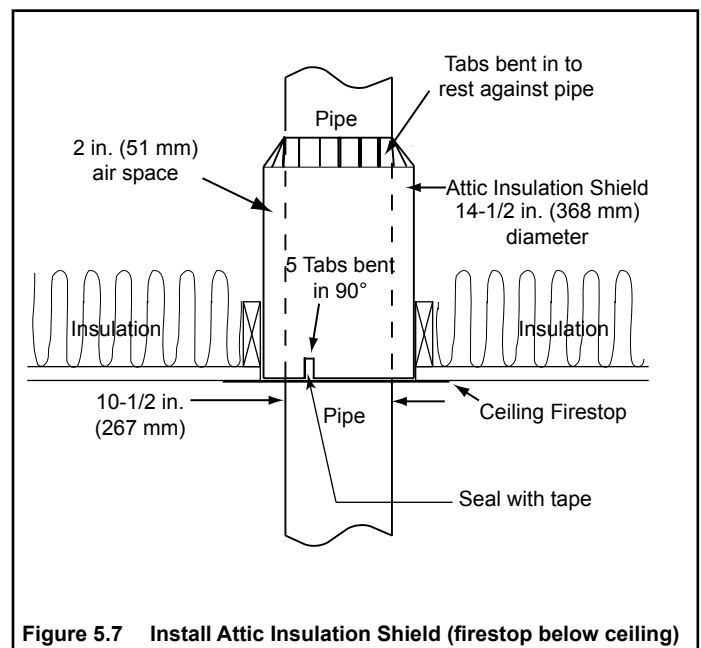


Figure 5.7 Install Attic Insulation Shield (firestop below ceiling)

6 Finishing

► A. Finishing Material

Refer to Sections 1.B. and Sections 1.C. for combustible/non-combustible materials. Refer to Figure 6.1 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 standoffs.
- Complete framing and apply drywall over framing.
- Facing material can butt up to metal face and columns of 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.

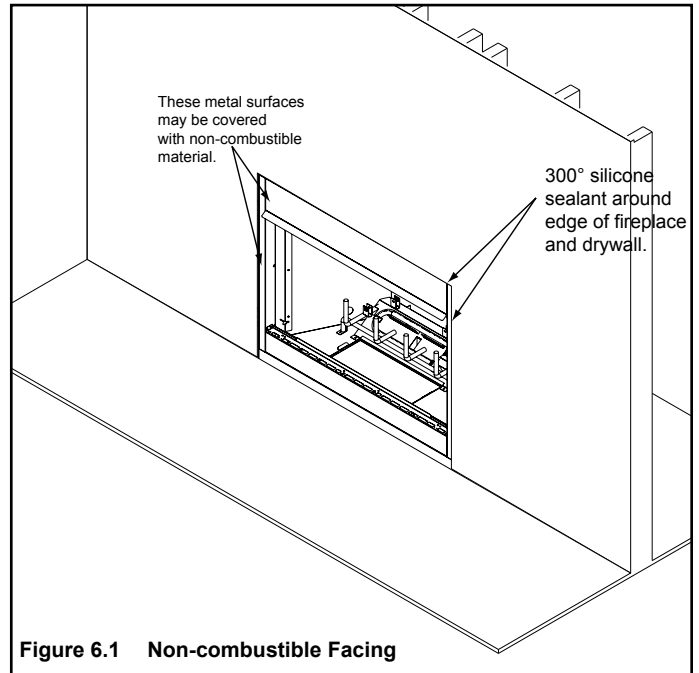


Figure 6.1 Non-combustible Facing

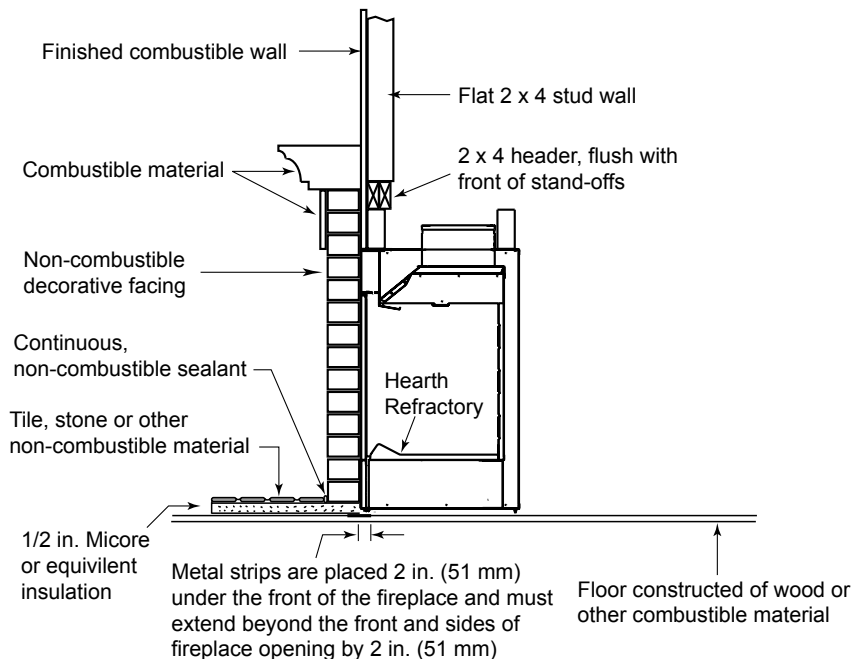


Figure 6.2 Decorative Facing

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 6.3 for minimum dimensions of combustible material.
- 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 6.1 to convert a k value to an R value,
- Refer to Table 6.2 for hearth extension insulation alternatives.

WARNING! Risk of Fire!

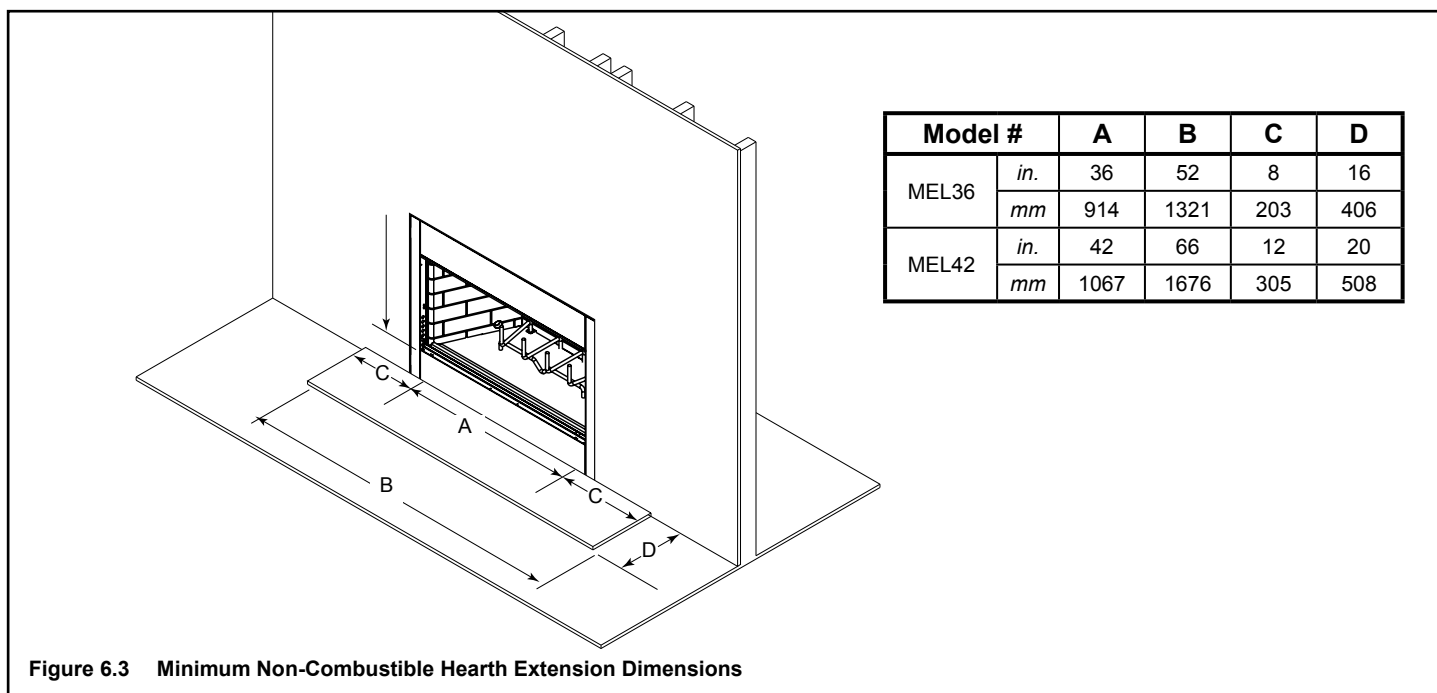
- Maintain clearances.
- Framing or finishing material used on the front of the fireplace closer than the minimums listed, must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).

Table 6.1

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

Table 6.2

Hearth Extension Insulation Alternatives, R Value = 1.03			
Material	k per inch thick	r per inch thick	Minimum thickness required
Hearth & Home HX3, HX4	0.49	2.06	1/2 in.
USG Micore 300™	0.49	2.06	1/2 in.
USG Durock™ Cement Board	1.92	0.52	2 in.
Cement Mortar	5.0	0.20	5 1/8 in.
Common Brick	5.0	0.20	5 1/8 in.
Ceramic Tile	12.50	0.08	12 1/4 in.
Armstrong™ Privacy Guard Plus	0.46	2.18	1/2 in.
Marble	14.3-20.0	0.07-0.05	14 5/8 in. - 20 3/8 in.



WARNING! Risk of Fire. A raised hearth extension built flush with the fireplace opening or less than 4 in. (102 mm) below the fireplace opening requires the fireplace be installed on a non-combustible surface.

1. Hearth Extension 4" or more Below Fireplace Opening

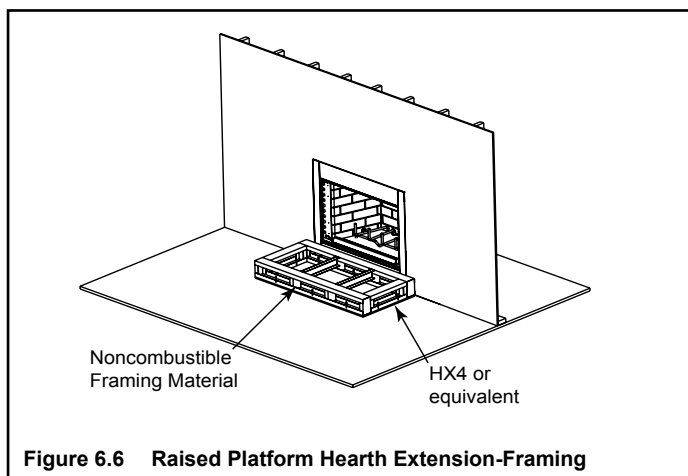
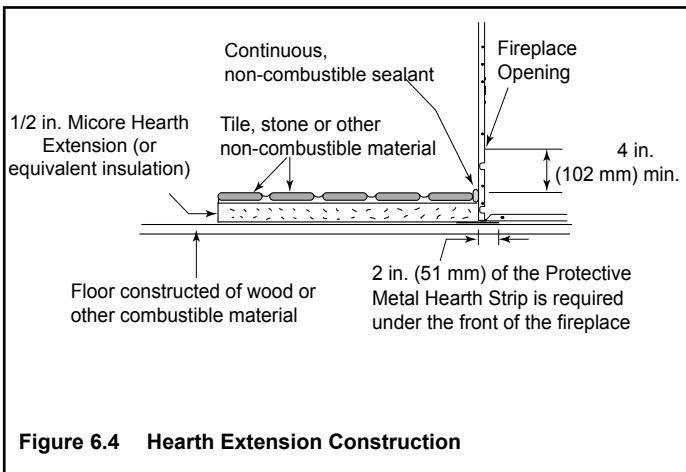


Figure 6.6 Raised Platform Hearth Extension-Framing

2. Hearth Extension Less Than 4" Below Fireplace Opening

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 6.4 and 6.5.

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.

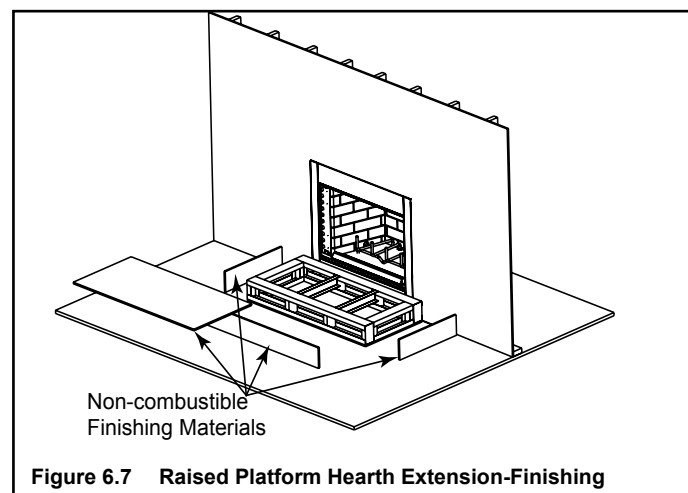


Figure 6.7 Raised Platform Hearth Extension-Finishing

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.

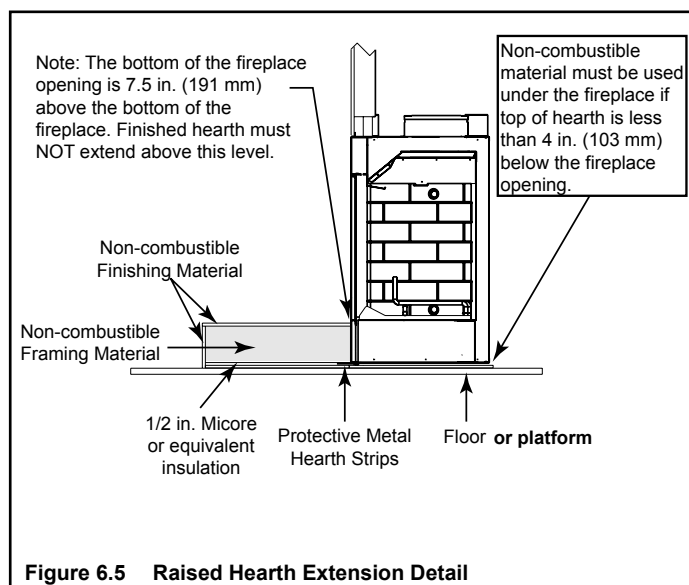


Figure 6.5 Raised Hearth Extension Detail

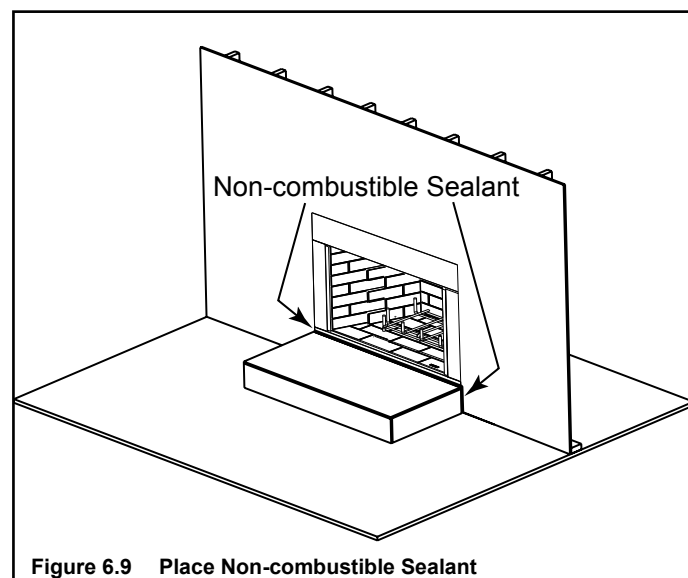


Figure 6.9 Place Non-combustible Sealant

► D. Mantel and Wall Projections

A combustible mantel may be positioned no lower than 12 in. (25 mm) above the fireplace opening.

The combustible mantel may have a maximum depth of 12 in. (305 mm). 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 fireplace 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! 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.

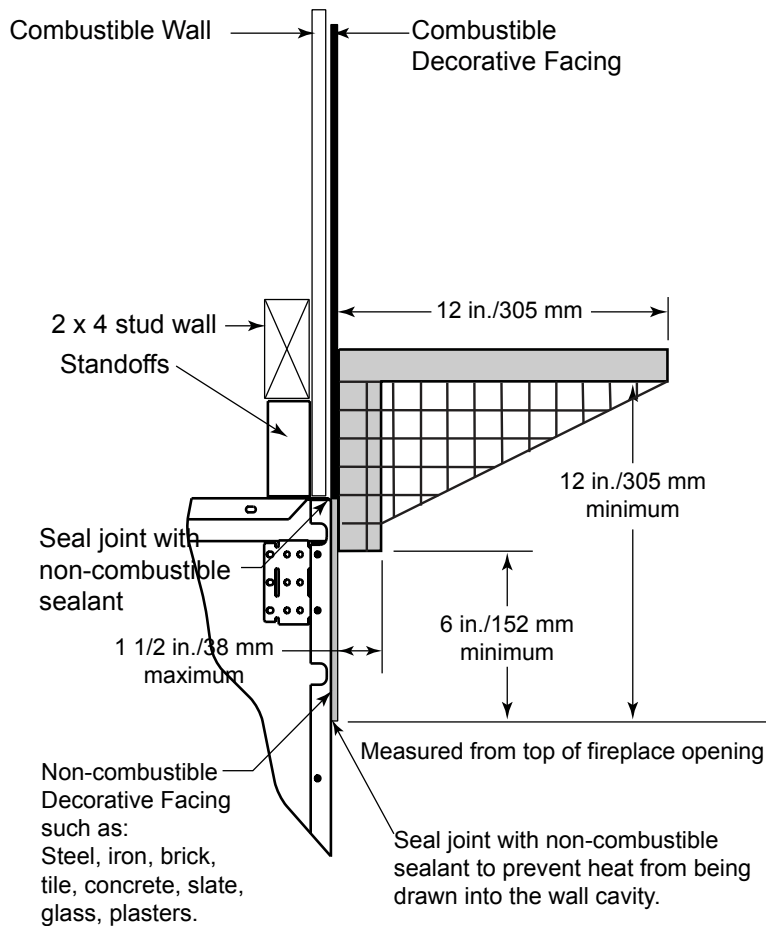
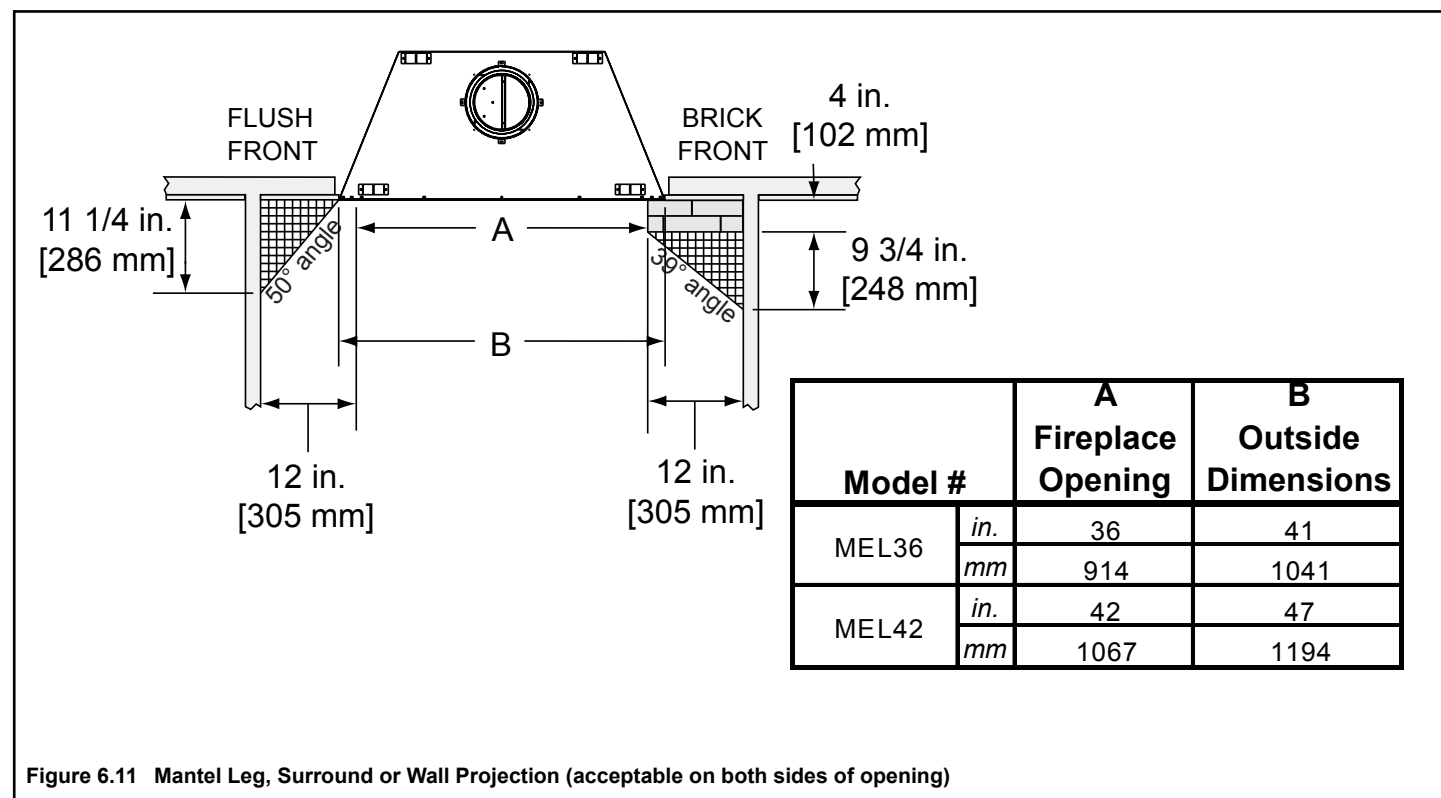


Figure 6.10 Mantel Specifications

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 in Figure 6.11.



7 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.

- **DO NOT** install unvented gas logs
- 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.

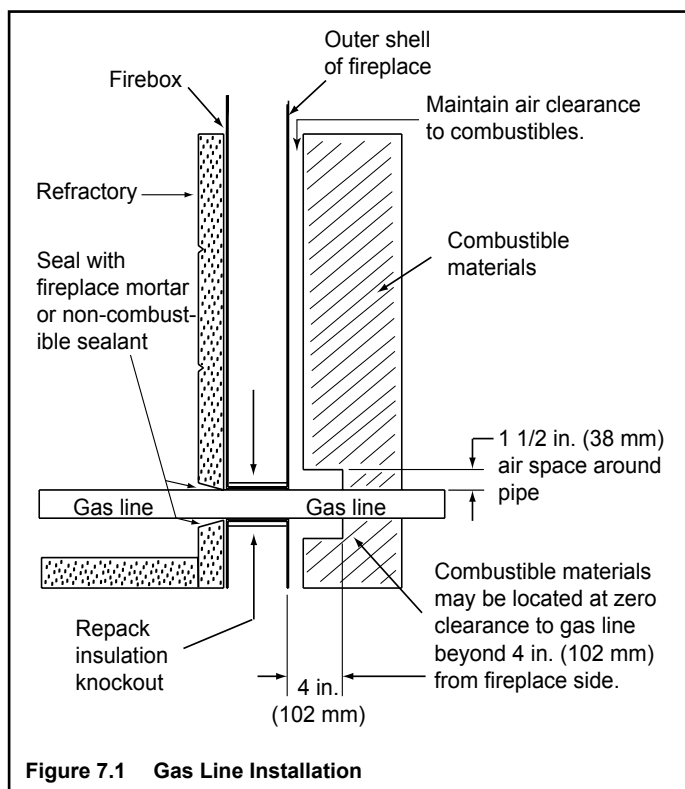
- Maximum input is 100,000 BTU/hr.
- Decorative gas appliance must be certified to **ANSI Z21.60** "Standard for Decorative Gas Appliances for Installation in Vented Fireplaces".
- Must be installed in accordance with the **National Fuel Gas Code, ANSI Z223.1**.
- A gas log set must incorporate a gas 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.

B. 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.

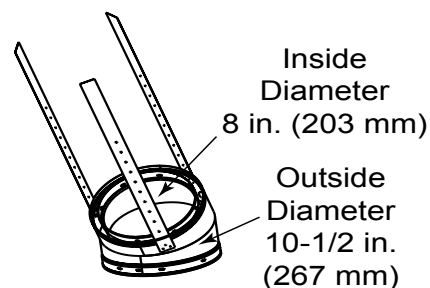
- Cooling air openings at the top of the chimney must not be obstructed in any manner.
- Hearth & Home Technologies recommends securing the reline at the top of the flue and using the cap certified for use with this fireplace system.



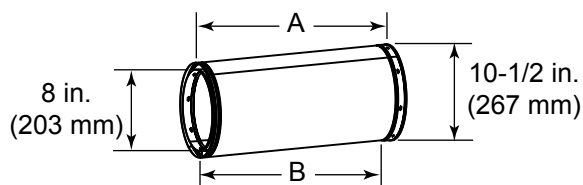
8 Reference Materials

A. Chimney Components

Catalog #	Description
CAK4A	Chimney Air Kit
ID4/ID6	Insulated Duct/Outside Air
UD4/UD6	Uninsulated Duct/Outside Air
SL306	Chimney Section - 6 in. (152 mm) long
SL312	Chimney Section - 12 in. (305 mm) long
SL318	Chimney Section - 18 in. (457 mm) long
SL324	Chimney Section - 24 in. (610 mm) long
SL336	Chimney Section - 36 in. (914 mm) long
SL348	Chimney Section - 48 in. (1219 mm) long
SL3	Chimney Stabilizer
SL315	Chimney Offset/Return - 15 deg
SL330	Chimney Offset/Return - 30 deg
FS338	Ceiling Firestop - Straight
FS339	Ceiling Firestop - 15 deg
FS340	Ceiling Firestop - 30 deg
JB877	Chimney Joint Band
CB876	Chimney Bracket
RF370	Roof Flashing - Flat to 6/12 Pitch
RF371	Roof Flashing - 6/12 to 12/12 Pitch
TR344	Round Termination Cap
MH841	Manufactured Housing 20 in. Thimble Extension
12966A	Manufactured Housing Thimble



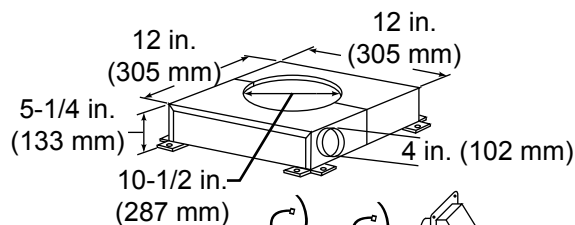
SL315 Chimney Offset/Return - Effective Height 13-3/8 in. (380 mm)
 SL330 Chimney Offset/Return - Effective Height 15-1/2 in. (394 mm)



Chimney Sections

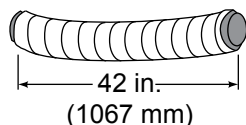
Catalog #	A		B	
	in	mm	in	mm
SL306	6	152	4-3/4	121
SL312	12	305	10-3/4	273
SL318	18	457	16-3/4	425
SL324	24	610	22-3/4	578
SL336	36	914	34-3/4	883
SL348	48	1219	46-3/4	1187

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

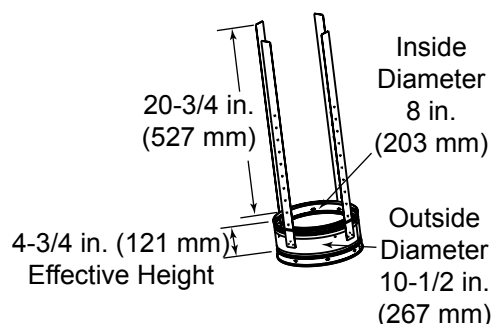
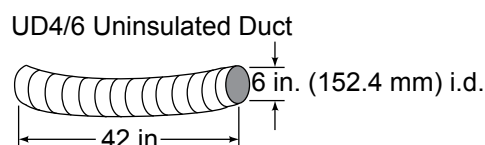


CAK4A Chimney Air Kit

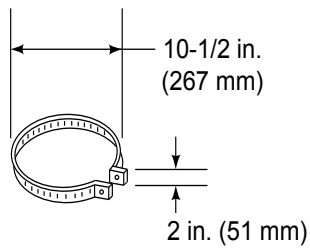
ID4 Insulated Duct 4 in. (102 mm) i.d.



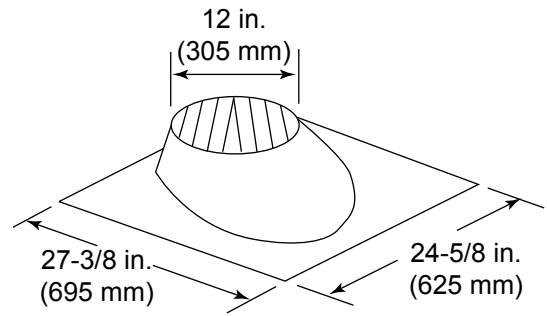
ID6 Insulated Duct 6 in. (152 mm) i.d.



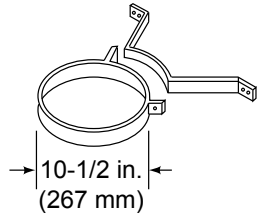
SL3 Chimney Stabilizer



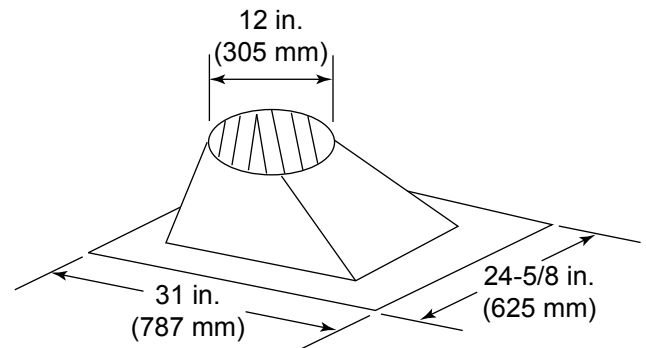
JB877 Chimney Joint Band



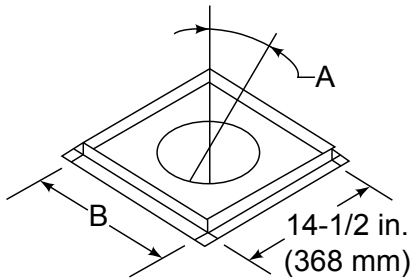
RF370 Roof Flashing



CB876 Chimney Joint Band

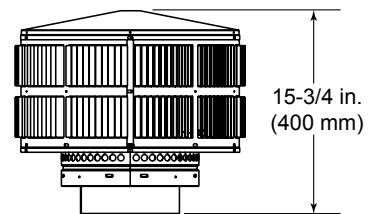


RF371 Roof Flashing

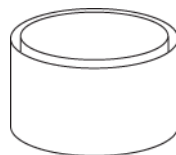


Ceiling Firestop

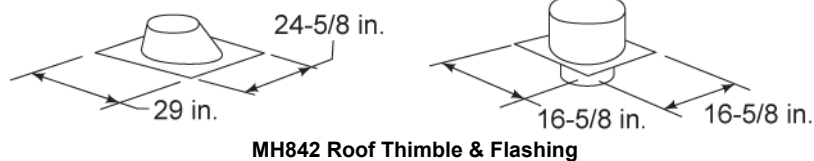
Catalog #	A	B	
FS338	0-deg.	14-1/2 in.	368 mm
FS339	15-deg.	18-3/8 in.	467 mm
FS340	30-deg.	23 in.	584 mm



TR344 Round Termination Cap

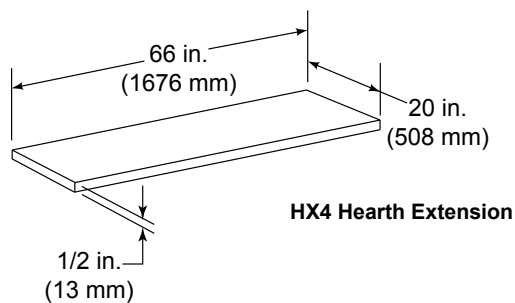
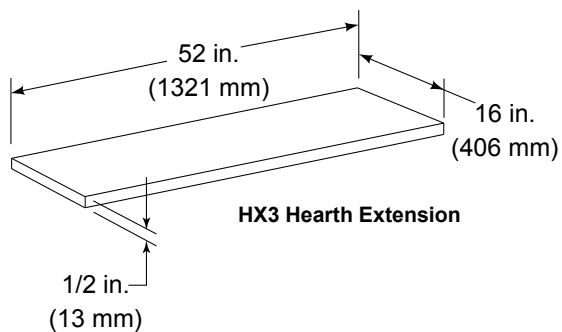


MH841



MH842 Roof Thimble & Flashing

B. Optional Components



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

Heatilator, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.heatilator.com

**Contact Heatilator Consumer Care at 1-800-486-9120 for questions or concerns.
Additional information about your Heatilator fireplace can be found at Heatilator.com.**