



P/N 901013-00 Rev. G 12/2023

Ce manuel est disponible en français, simplement en faire la demande. Numéro de la pièce 901013-02.



Installation and Operation Instructions

Astria® Residential Wood Burning Fireplace

(Box only, Mosaic Masonry Brick Liner Required)

Models

Citadel48



SAVE THIS BOOK

This book is valuable. In addition to instructing you on how to install and maintain your appliance, it also contains information that will enable you to obtain replacement parts or accessory items when needed. Keep it with your other important papers.

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

Installateur : Laissez cette notice avec l'appareil.
Consommateur : Conservez cette notice pour consultation ultérieure.

This wood burning fireplace complies with UL 127 CAN/ULC-S61 standard as a **FACTORY BUILT FIREPLACE**.

Ce foyer au bois est conforme aux UL 127 CAN/ULC-S610 norme comme une **USINE CONSTRUITE CHEMINÉE**.

This fireplace is approved for use as a wood burning fireplace or for use with a vented gas log approved to ANSI Z21.60 or Z21.84 standards or for use with a vent-free gas log heater approved to ANSI Z21.11.2 standard.

FOR CANADA: The authority having jurisdiction (such as the municipal building department, fire department, etc.) should be contacted before installation to determine the need to obtain a permit.

POUR LE CANADA: L'autorité compétente (comme le service municipal du bâtiment, les pompiers, etc.) doit être contacté avant l'installation afin de déterminer la nécessité d'obtenir un permis.

This installation manual will enable you to obtain a safe, efficient and dependable installation of your fireplace system. Please read and understand these instructions before beginning your installation.

Do not alter or modify the fireplace or its components under any circumstances. Any modification or alteration of the fireplace system, including but not limited to the fireplace, chimney components and accessories, may void the warranty, listings and approvals of this system and could result in an unsafe and potentially dangerous installation.

IMPORTANT! TO ASSURE PROPER ALIGNMENT OF GLASS DOORS: INSTALL THIS FIREPLACE IN A SQUARE AND PLUMB CONDITION, USING SHIMS AS NECESSARY AT SIDES AND/OR BOTTOM.

Thank you for your purchase. We appreciate your business!

Please carefully read and follow all instructions in this manual. **Pay special attention to all warnings and safety information.**

Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

Please read and understand these instructions before installing or operating.

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SAFETY

⚠ WARNING: For any installation of fireplace other than on a concrete slab, the fireplace must be installed using IHP's Cat. No. F0971, Model HS48 Combustible Floor Hearth Spacer. See Replacement parts, page 20 and Accessories on page 22.

⚠ WARNING: This product 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

IMPORTANT: Check local codes before installing this fireplace.

Before beginning the installation of the fireplace, read these instructions through completely.

- This INNOVATIVE HEARTH PRODUCTS, LLC (IHP) fireplace and its components are safe when installed according to this installation manual. Unless you use IHP components, which have been designed and tested for the fireplace system, you may cause a fire hazard.
- The IHP warranty will be voided by and IHP disclaims any responsibility for the following actions.
 - a. Modification of the fireplace, components, doors, air inlet system and damper control.
 - b. Use of any component part not manufactured or approved by IHP in combination with a IHP fireplace system.

Proper installation is the most important step in ensuring safe and continuous operation of the fireplace. Consult the local building codes as to the particular requirements concerned with the installation of all factory built fireplaces.

⚠ WARNING: Do not install a fireplace insert in this box unless the manufacturer's instructions with the insert specifically state this fireplace has been tested for use with this insert.

This fireplace is not intended to be used as a substitute for a furnace to heat an entire home. Use for supplemental heat only.

⚠ WARNING: Always leave glass doors fully opened or fully closed when operating fireplace.

FOR YOUR SAFETY

- Do not store or use gasoline or any other flammable vapors or liquids in the vicinity of this or any other appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Do not place clothing or other flammable materials on or near the appliance.
- Never leave children unattended when a fire is burning in the fireplace.

⚠ WARNING: Use solid wood or processed solid fuel fire logs only. When processed wood fuel fire logs are used, do not poke or stir the logs while they are burning. Use only fire logs that have been evaluated for the application in fireplace and refer to fire log warnings and caution markings on packaging prior to use.

Overfiring of a fireplace is a condition where excessive temperatures are reached, beyond the design capabilities of the appliance. The damage that occurs from overfiring is not covered under the manufacturer's limited warranty.

⚠ WARNING: CONTINUED OVERFIRING CAN PERMANENTLY DAMAGE YOUR FIREPLACE SYSTEM. SOME EXAMPLES OF CONDITIONS THAT COULD CAUSE OVERFIRING ARE:

- **BURNING QUANTITIES OF SCRAP LUMBER, PINE BRANCHES, PAPER OR CARDBOARD BOXES WHICH EXCEED THE VOLUME OF THE NORMAL LOG FIRE.**
- **BURNING TRASH, CHEMICALS OR CHEMICALLY TREATED COMBUSTIBLES.**

Disposal of Ashes

Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

WHEN USING THE DECORATIVE APPLIANCE, THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION.

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Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this fireplace. Keep all such liquids well away from the fireplace while it is in use.

Use SOLID WOOD only for fuel. It is best to use dry and well seasoned hardwood. Softwoods tend to burn very quickly. DO NOT use treated wood, charcoal, coal, trash, driftwood or woods that have been dipped in tar, pitch, pine tar, creosote, etc. Wood products made with synthetic binders, such as plywood, produce abnormally high temperatures and sputtering, smoking fires. When burning artificial logs, please read and follow the instructions provided by the manufacturer.

Never burn treated construction lumber or scraps. These woods burn excessively hot and may contain chemicals used to treat insects and fungus. When burned, these chemicals can pose a significant hazard.

IMPORTANT: See appendix A, page 25 for additional information regarding draft requirements, smoking causes and troubleshooting.

⚠ WARNING: BURNING IMPROPER FUEL (I.E. CHARCOAL) CAN RESULT IN CARBON MONOXIDE POISONING, WHICH MAY LEAD TO DEATH!

Carbon Monoxide Poisoning – Early signs of carbon monoxide poisoning resemble the flu with headaches, dizziness, or nausea. If you have these signs, get fresh air at once! Have the appliance inspected by a qualified service technician. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Ventilation Requirements - Provide adequate air for combustion. The fresh air requirements of this appliance must be met within the space where it will be installed.

Smoke Detectors - Since there are always several potential sources of fire in any home, we recommend installing smoke detectors. If possible, install the smoke detector in a hallway adjacent to the room (to reduce the possibility of occasional false activation from the heat produced by the appliance). If your local code requires a smoke detector be installed within the same room, you must follow the requirements of your local code. Check with your local building department for requirements in your area.

Creosote – Formation and Need for Removal

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

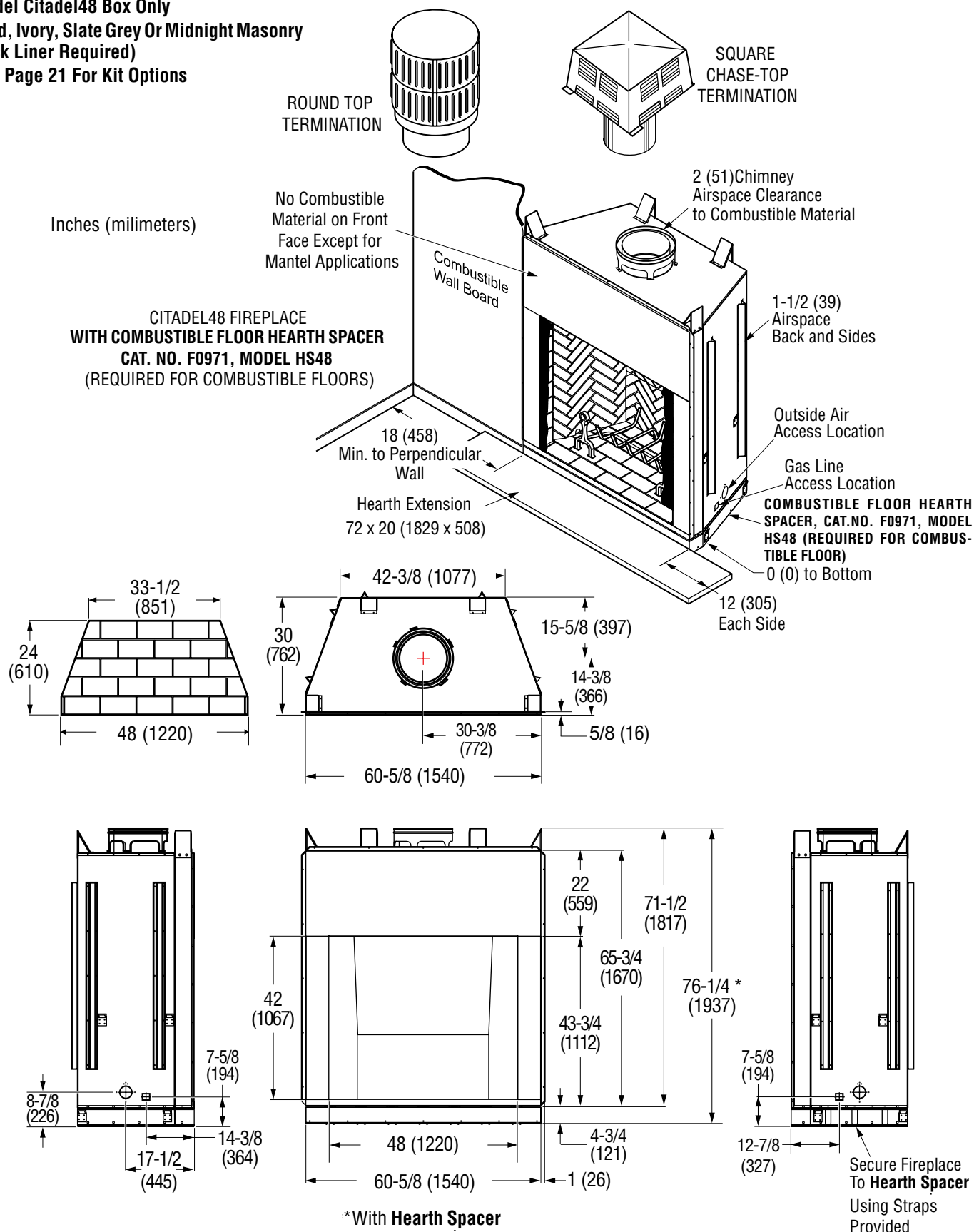
The chimney shall be inspected at least twice a year during the heating season to determine when a creosote buildup has occurred. When creosote has accumulated (1/8" [3 mm] or more) it shall be removed to reduce the risk of a chimney fire.

⚠ WARNING: Children and adults should be alerted to the hazards of high surface temperatures and to stay away to avoid burns or clothing ignition. Young children should be carefully supervised when in the same room as fireplace.

SPECIFICATIONS

Fireplace Reference Information			
Cat. No.	Model	Shipping Wt.	Shipping Vol.
F4255	Citadel48	347 lbs.	139.8 cu. ft.

Model Citadel48 Box Only
(Red, Ivory, Slate Grey Or Midnight Masonry
Brick Liner Required)
See Page 21 For Kit Options



*With Hearth Spacer

INSTALLATION

SELECTING FIREPLACE LOCATION

To determine the safest and most efficient location for the fireplace, you must take into consideration the following guidelines:

1. The location must allow for proper clearances (see Figures 1 and 2).
2. Consider a location where the fireplace will not be affected by drafts, air conditioning ducts, windows or doors.
3. A location that avoids the cutting of joists or roof rafters will make installation easier.
4. An outside air kit is available with this fireplace (see [Optional Outside Air Kit](#) on page 6).

MINIMUM CLEARANCE TO COMBUSTIBLES

Back and sides of fireplace	1 1/2" (39 mm) min.*
Front of fireplace	48" (1220 mm) min.
Floor**	0" (0 mm) min.
Perpendicular wall to opening	18" (458 mm) min.
Top spacers	0" (0 mm) min.
Mantel clearance	see Mantels , page 6
Chimney outer pipe surface	2" (51 mm) min.

* Not required at nailing flanges

** See step 2 of [Framing](#)

WARNING: Do not pack required air spaces with insulation or other materials.

Minimum/Maximum Chimney Height

The minimum height of the chimney, measured from the base of the fireplace to the flue gas outlet of the termination, is 16 feet for straight flue or a flue with one elbow set. The maximum distance between elbows is 6 feet. For systems with two elbow sets, the minimum height is 22 feet. The maximum height of any system is 50 feet. This measurement includes the fireplace, chimney sections and the height of the termination assembly at the level of the flue gas outlet (see Figure 15, page 10).

FRAMING

1. Frame the opening for the fireplace using the dimensions shown in Figures 1 and 2.
2. For any installation other than on a concrete slab, the fireplace must be installed using IHP's Cat. No. F0971, Model HS48 Combustible Floor hearth spacer (see [Replacement Parts](#), page 20 and [Accessory Parts](#), page 22).
3. Set the fireplace directly in front of this opening and slide the unit back until the nailing flanges touch the side framing.
4. Check the level of the fireplace and shim with sheet metal if necessary.
5. Before securing fireplace to prepared framing, the ember protector (provided) must be placed between the hearth extension (not supplied) and under the bottom front edge of the fireplace to protect against glowing embers falling through. If the fireplace is to be installed on a raised platform, a Z-type ember protector (not supplied) must be fabricated to fit your required platform height. The ember protector should extend under the fireplace a minimum of 1 1/2". The ember protector should be made of galvanized sheet metal

(28 gauge minimum to prevent corrosion).

6. Using screws or nails, secure the fireplace to the framing through flanges located on the sides of the fireplace.

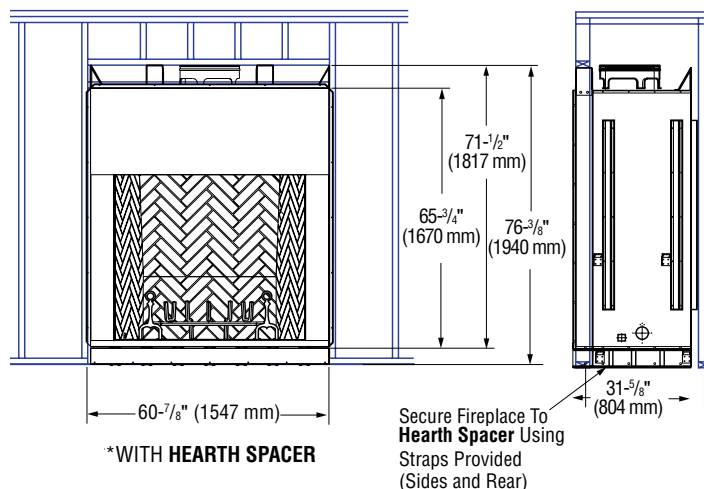


Figure 1 - Framing Dimensions

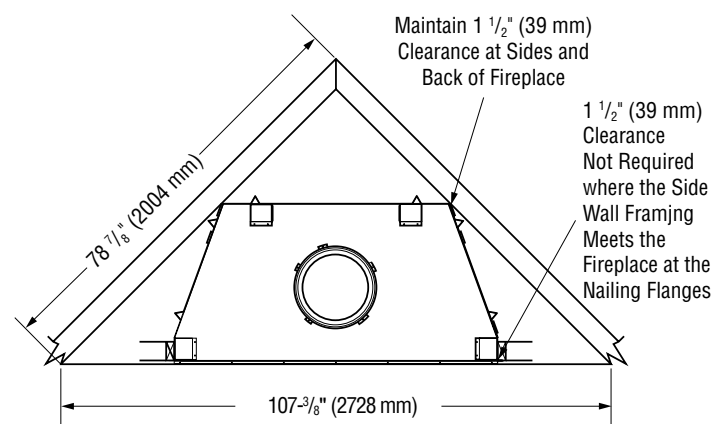


Figure 2 - Corner Installation

HEARTH EXTENSION

A hearth extension projecting a minimum of 20" in front of and a minimum of 12" beyond each side of the fireplace opening is required to protect combustible floor construction in front of the fireplace. Fabricate a hearth extension using a material which meets the following specifications: a layer of noncombustible, inorganic material having a thermal conductivity of $k=0.84$ BTU IN/FT, HR. F (or less) at 1" thick. For example, if the material selected has a k factor of 0.25, such as glass fiber, the following formula would apply:

$$\frac{0.25 \times 1.0}{0.84} = 0.30 \text{\" thickness required}$$

Thermal conductivity "k" of materials can be obtained from the manufacturer or supplier of the noncombustible material. If the hearth extension is to be covered, use noncombustible material such as tile, slate, brick, concrete, metal, glass, marble, stone, etc. Provide a means to prevent the hearth extension from shifting and seal gap between the fireplace frame and hearth extension with a noncombustible material (see Figure 3, page 6).

INSTALLATION *Continued*

⚠ WARNING: Hearth extension is to be installed only as shown in Figure 3.

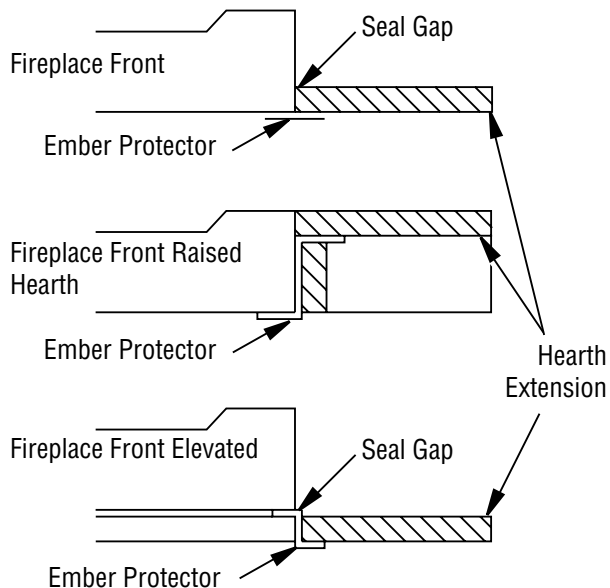


Figure 3 - Hearth Extension

MANTELS

A mantel may be installed if desired (see Figures 4 and 4a). Wood-work such as wood trims, mantels or any other combustible material projecting from the front face must not be placed within 12" of the fireplace opening. Combustible materials above 12" and projecting more than 1 1/2" from the fireplace must not be placed less than 15" from the top opening of the fireplace (NFPA 211, Section - Clearance from Combustible Material).

Mantels or any other combustible material also may come up to the side edge of the black metal face of the fireplace just as long as the projection from the front face fall within the limit shown in Figure 4a.

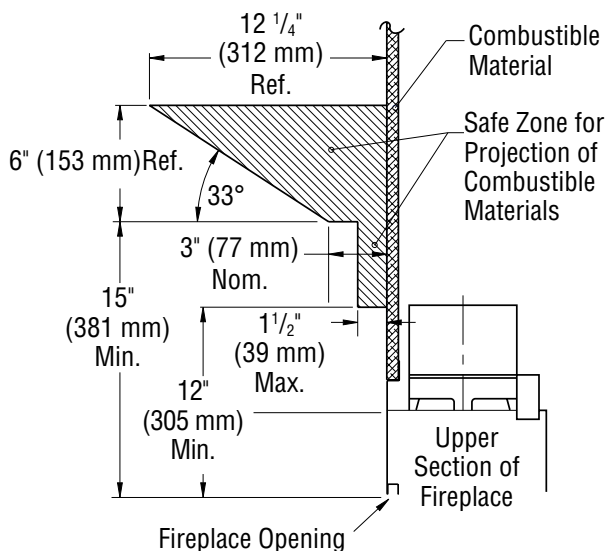


Figure 4 - Mantel Clearances to Combustible Material

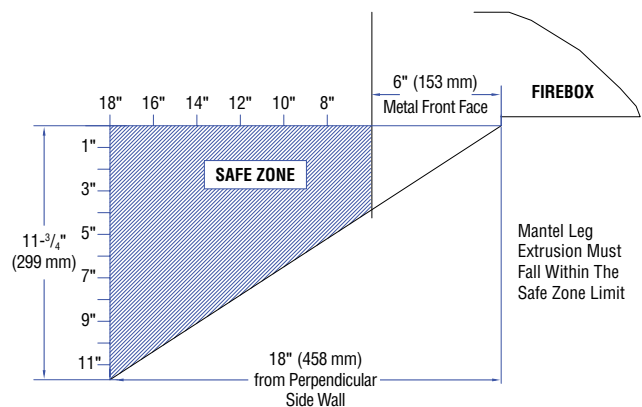


Figure 4a - Mantel Clearances to Combustible Material

OPTIONAL OUTSIDE AIR KIT (MODEL AK4/AK4F)

Installation of an outside air kit should be performed during rough framing of fireplace due to nature of it's location. Outside combustion air is accessed through a vented crawl space (AK4F) or through a sidewall (AK4). This fireplace is equipped with a barometric damper which allow outside air to flow into fireplace automatically when needed.

⚠ CAUTION: Combustion air inlet ducts shall not terminate in attic space.

The maximum height for the air vent can not exceed 3 feet below the flue gas outlet of the termination.

Two (2) Outside Air Kits are highly recommended to assure best performance from your fireplace.

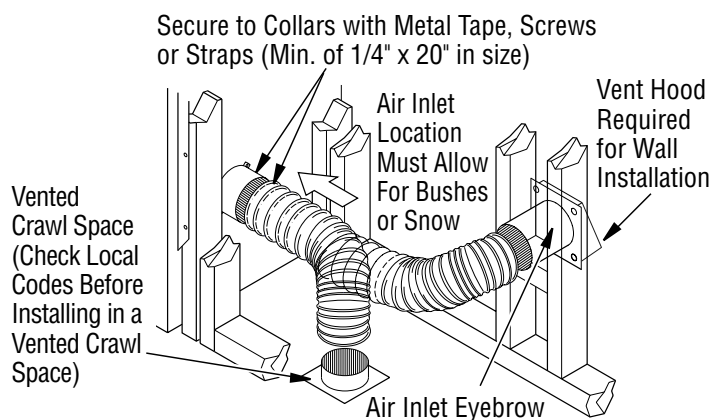


Figure 5 - Outside Air Kit

CHIMNEY PIPE

⚠ WARNING: Label part number 900599-01 must be applied by the installer to all chimney pipe sections but is not required on sections that will be visible after the installation is complete. Label must wrap around the circumference of the pipe. See accessories, page 23 for Kit F2659.

INSTALLATION *Continued*

IHP chimney system consists of 12", 18", 24", 36" and 48" snap-lock, double-wall pipe segments, planned for maximum adaptability to individual site requirements. Actual lengths gained after fitting overlaps must be taken into consideration (lineal gain) and are given in lineal gain chart (see Figure 6). Lineal gain is the actual measurable length of a part after two or more parts are connected. For Canada, use chimney parts designated "HT" (see page 22).

⚠ WARNING: The opening in the collar around the chimney at the top of the fireplace must not be obstructed. Never use blown insulation to fill the chimney enclosure.

LINEAL GAIN		
PART NO.	DESCRIPTION	GAIN (IN)
48" Citadel	Fireplace	66 1/2"
12-12DM 12-12HT	Pipe Section	10 5/8"
18-12DM 18-12HT	Pipe Section	16 5/8"
24-12DM 24-12HT	Pipe Section	23 5/8"
36-12DM 36-12HT	Pipe Section	34 5/8"
48-12DM 48-12HT	Pipe Section	46 5/8"
RLT-12D RLT-12HT	Round Termination	7 3/4"
STL-12D	Square Chase-Top with Slip Section	7" to 15"

* The lineal gain for the terminations is measured to the flue gas outlet height.

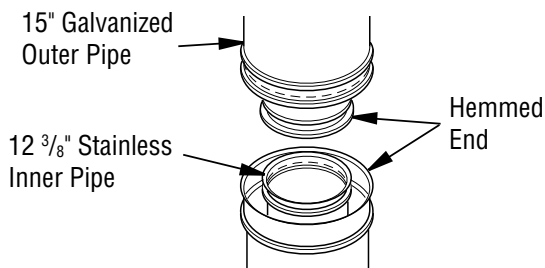


Figure 6 - Lineal Gain

ASSEMBLY AND INSTALLATION OF DOUBLE WALL CHIMNEY SYSTEM

Each double wall chimney section consists of a galvanized outer pipe, a stainless steel inner flue pipe and a wire spacer. Pipe sections must be assembled independently as chimney is installed. When connecting chimney directly to fireplace, inner flue pipe section must be installed first with lanced side up. Outer pipe section can then be installed over flue pipe section with hemmed end up. Press down on each pipe section until lances securely engage hem on fireplace starter. Wire will assure proper spacing between inner and outer pipe sections. Continue to assemble chimney sections as outlined above, making sure both inner and outer pipe sections are locked together. When installing double wall snap-lock chimney together, it is important to

assure joint between chimney sections is locked. Check by pulling chimney upward after locking. Chimney will not come apart if properly locked. It is not necessary to add screws to keep chimney together (exception, see Figure 7).

The height of a vertical chimney pipe supported **ONLY** by the fire-place, must not exceed 20 feet. Chimney heights above 20 feet must be supported.

USING ELBOW OFFSETS (30E-12DM)

- To achieve desired offset, you may install combinations of 12", 18", 24", 36" and 48" length of double wall pipe (see offset chart, this page and Figure 8, page 8).

OFFSET A	RISE B	CHIMNEY LENGTH				
		12"	18"	24"	36"	48"
4 3/8"	16 3/8"	ELBOW SET ONLY				
9 3/4"	25 1/2"	1				
12 3/4"	30 3/4"		1			
15"	34 3/4"			1		
18"	40"	1	1			
21 1/4"	46 1/4"				1	
23 3/4"	49 1/4"		1	1		
27 3/4"	56 3/4"					1
30"	60 3/4"		1		1	
33"	66"	1				1
36"	71"		1			1
38 1/4"	75"				2	
41 1/4"	80 1/4"	1	1			1
45"	86 3/4"				1	1
46 3/4"	89 1/2"		1		2	
51"	97"					2
53 1/4"	101"		1		1	1
56 1/4"	106 1/4"	1				2
59 1/4"	111 1/2"		1			2
61 3/4"	115 1/2"				2	1
64 3/4"	120 3/4"	1	1			2
68 1/4"	127"	1			2	1
70"	130"		1		2	1
74 1/4"	137 1/2"				4	

OFFSET CHART (22-50 FT. SYSTEM HEIGHT)

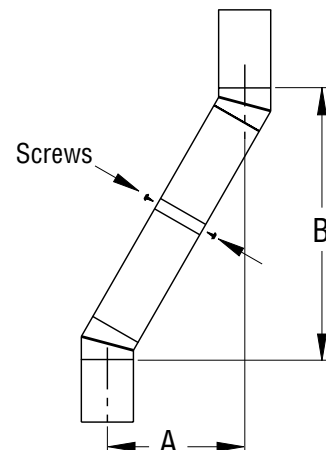


Figure 7 - Elbow Offset

INSTALLATION *Continued*

- Chimney weight above offset rests on return elbow. Straps must be securely nailed to rafters or joists (see Figure 9, details A and B).
- Maximum length of pipe between supports (return elbow or 12S-12DM) is 6' of angle run. Maximum of two 6' angle run sections per chimney system (see Figure 8).
- All pipe connections between the offset and return must be secured with two screws on the outer pipe only (see Figure 7, page 7). Do not penetrate the inner stainless.

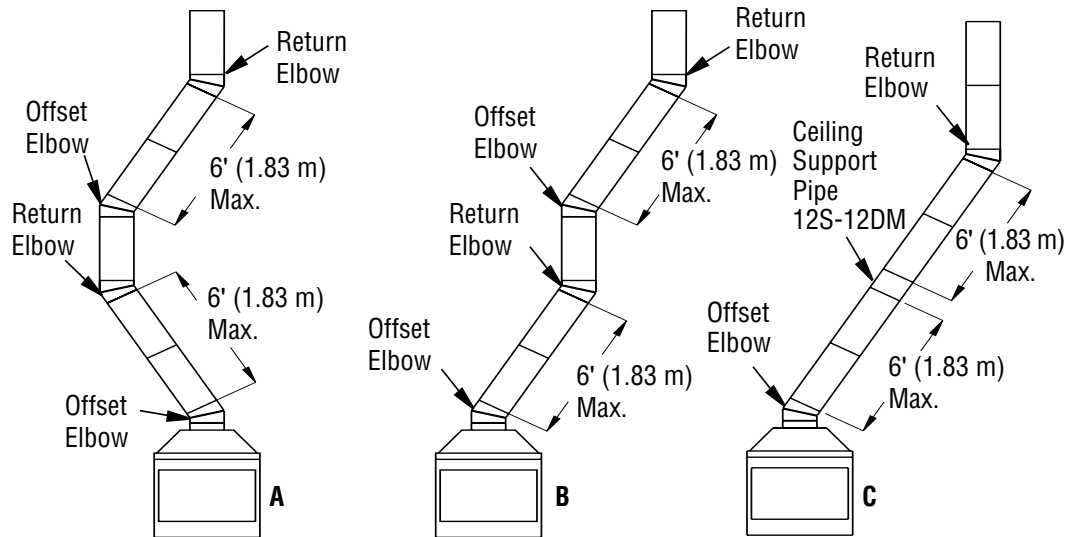


Figure 8 - Typical Offset Terminations

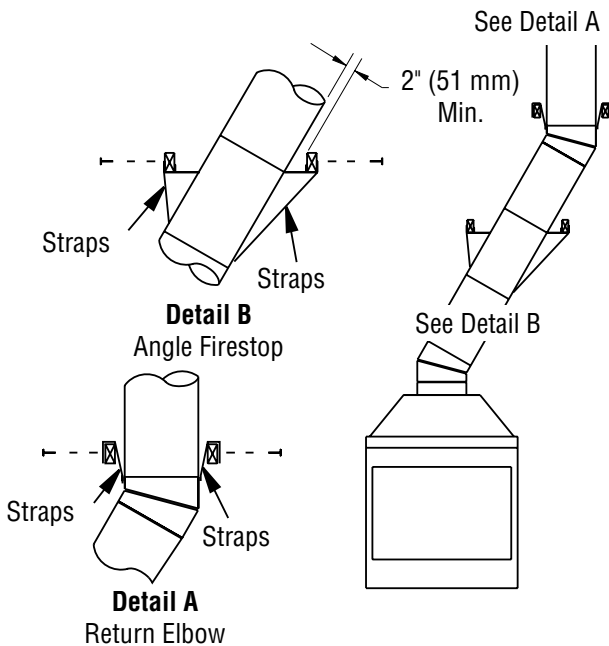


Figure 9 - Ceiling Support Pipe 12S-12DM

FIRESTOP SPACERS (FS-10)

Firestop spacers are required at each point where chimney penetrates a floor space. Their purpose is to establish and maintain required clearance between chimney and combustible materials. When pipe passes through a framed opening into a living space above, firestop must be placed onto ceiling from below as shown in Figure 10.

They also provide complete separation from one floor space to another or attic space as required by most codes. When the double wall pipe passes through a framed opening into an attic space, the firestop must be placed into an attic floor as shown in Figure 11.

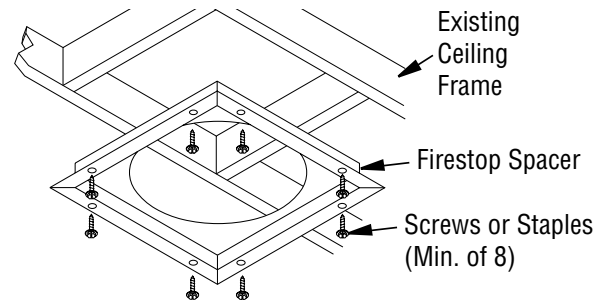


Figure 10 - Firestop Spacer with Living Space Above Ceiling

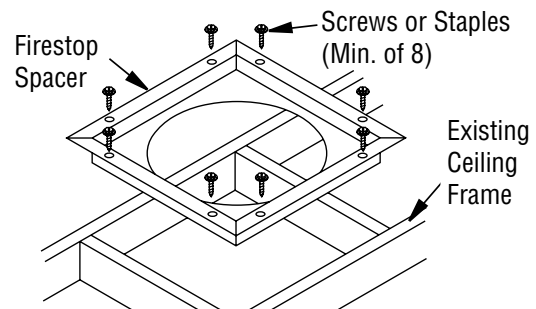


Figure 11 - Firestop Spacer with Attic Space Above Ceiling

IMPORTANT NOTICE
When penetrating a ceiling into an attic, a firestop thimble (FST10) is required to avoid intrusion by insulation and recommended to negotiate a joist.

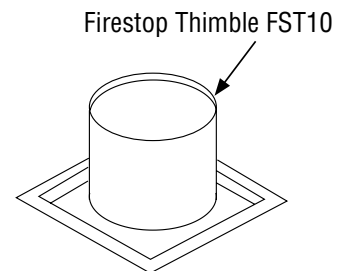


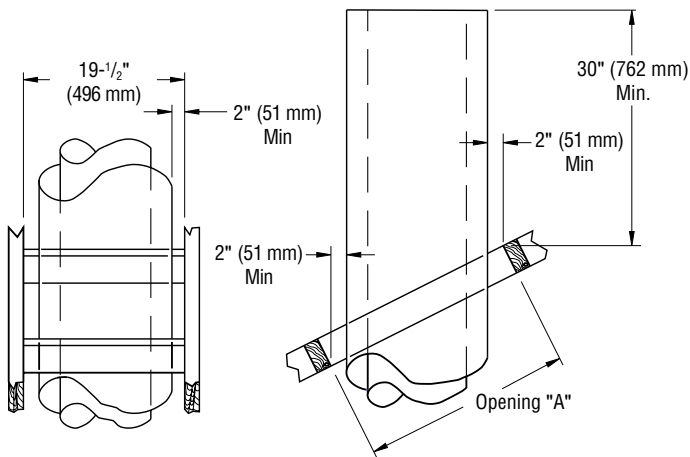
Figure 11a - Firestop Thimble

INSTALLATION *Continued*

PENETRATING ROOF

To maintain a 2" clearance to pipe on roof with a pitch, a rectangular opening must be cut.

1. Determine center point through which pipe will penetrate roof.
2. Determine center point of roof. Pitch is the distance the roof drops over a given span, usually 12".
3. Use roof opening chart (Figure 12) to determine correct opening length and flashing required.
4. Remove shingles around opening measured. Cut out this section.
5. Add next sections of pipe until end penetrates roof line. Check to see that proper clearances are maintained. Extend chimney by adding sections of double wall pipe until pipe is minimum of 30" above highest point of roof cutout. Termination and chimney must extend a minimum of 36" above highest point where it passes through roof.



Pitch	Slope	Opening "A" Max.	Used Flashing Model No.
Flat	0°	19.5"	V6F-10DM
0-6/12	26.6°	22"	V6F-10DM
6/12-12/12	45.0°	27"	V12F-10DM

Figure 12 - Roof Opening Measurements

CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.

WARNING: DO NOT INSTALL IN SLEEPING ROOM OF MOBILE HOMES.

FLASHING INSTALLATION (V6F-10DM OR V12F-10DM)

Determine flashing to be used with roof opening chart. Slide flashing over pipe until base is flat against roof. Replace as many shingles as needed to cover exposed area and flashing base. Secure in position by nailing through shingles (see Figure 13). **DO NOT NAIL THROUGH FLASHING CONE.**

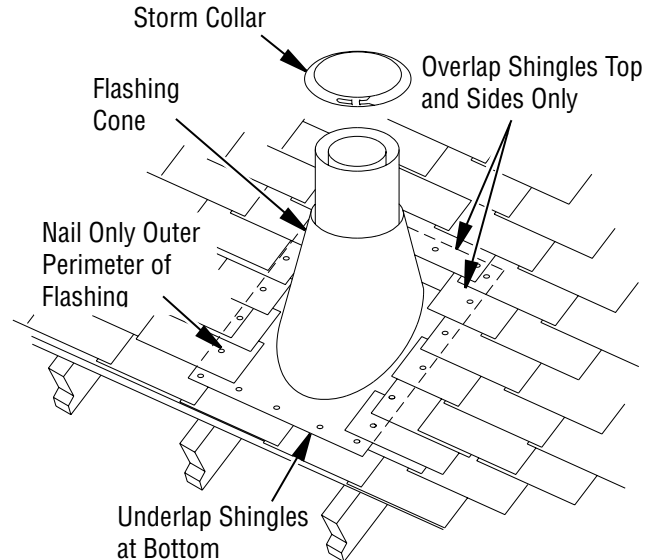


Figure 13 - Flashing Installation

Installing Flashing on a Metal Roof

When installing the flashing on a metal roof, it is required that putty tape be used between the flashing and the roof. The flashing must be secured to the roof using #8 x 3/4" screws and then sealed with roof coating to prevent leakage through the screw holes. A roof coating must also be applied around the perimeter of the flashing to provide a proper seal.

Storm Collar Installation (SC2-1)

Place storm collar over pipe and slide down until it is snug against open edge of flashing (see Figure 14). Apply waterproof caulk around perimeter of collar to provide a proper seal.

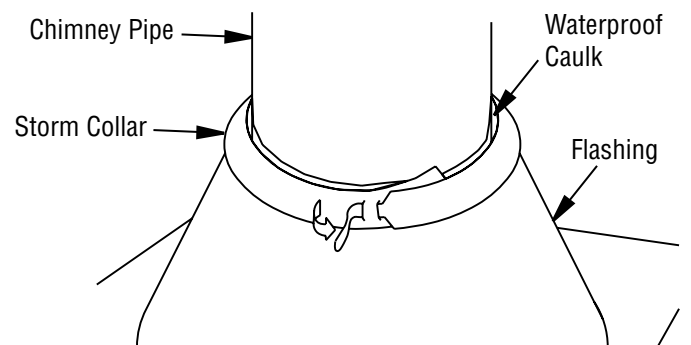


Figure 14 - Storm Collar

INSTALLATION *Continued*

Terminations/Spark Arrestor

Fireplace system must be terminated with listed round top or chase terminations.

CAUTION: Do not seal openings on the rooftop flashing. Follow installation instructions provided with termination being used.

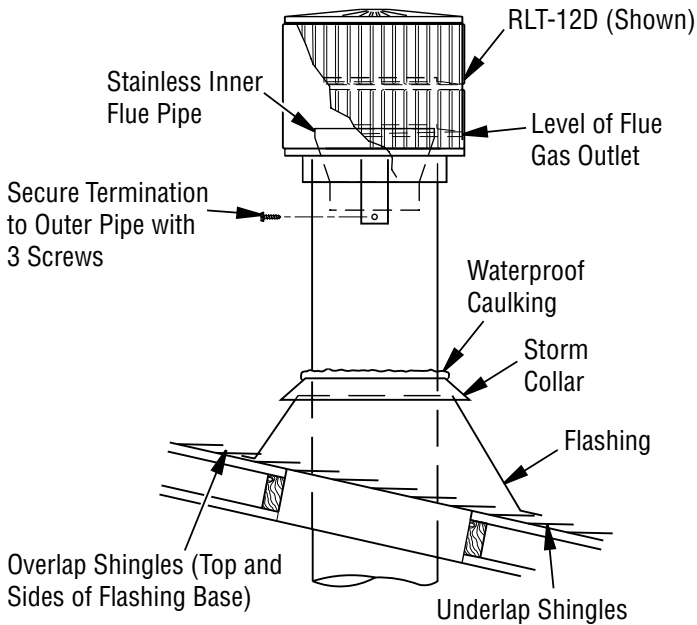


Figure 15 - Termination

CHASE INSTALLATIONS

Instructions for chase installations are included with the chase style termination chosen. In a multiple chase installation, be sure to provide adequate distance between terminations to prevent smoke spillage from one termination to another. Terminations must be separated a minimum of 24" center to center and stacked at a minimum vertical height difference of 18" (see Figure 16).

Note: If a decorative shroud is to be installed, contact the manufacturer for specifications.

10 FOOT RULE

All flue gas outlet chimney terminations must extend a minimum of 3 feet in height above highest point where it passes through the roof and must be at least 2 feet above highest point of the roof that is within a horizontal distance of 10 feet (see Figure 17).

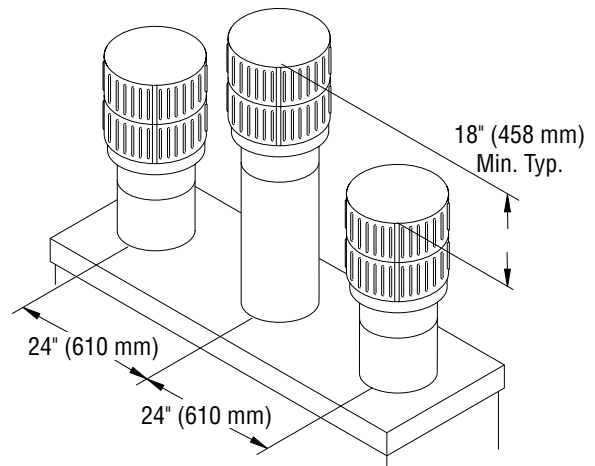


Figure 16 - Multiple Chase Installation

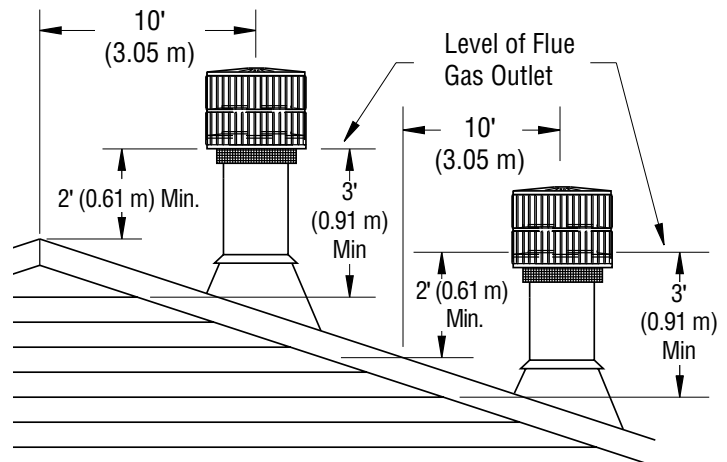


Figure 17 - 10 Foot Rule

INSTALLATION *Continued*

SQUARE TOP TERMINATIONS INSTALLATION STL-12D AND STL-12DMP

1. Construct chase as illustrated in Figure 18. **Note:** The shortest vertical side must be at least 30" high and minimum inside dimension must be at least 19" as shown in Figure 18.
2. Add pipe sections to chimney system as outlined in fireplace installation instructions until last piece of chimney is a maximum of 6" below top of chase (see Figure 18).
3. Fabricate a flashing having a 16-1/2" diameter hole centered over chimney end with a 2" collar around hole (see Figure 19). Attach noncombustible spacers at each corner and place flashing over chase.
4. Secure flashing through sides with 8-penny nails or sheet rock screws.
5. Place galvanized sleeve through hole in flashing and around last section of chimney (see Figure 20).
6. Place termination cap over opening and slip stainless steel inner pipe into stainless steel chimney section. Lower termination assembly until cap rests evenly over flashing hole. Secure cap at each corner with sheet metal screws (see Figure 21).

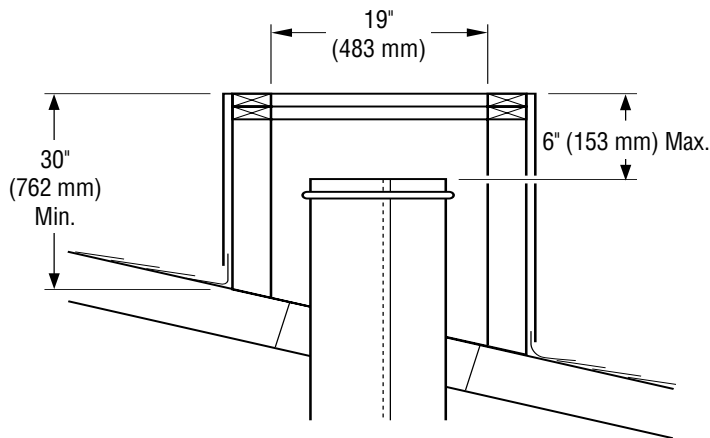


Figure 18 - Constructing Chase

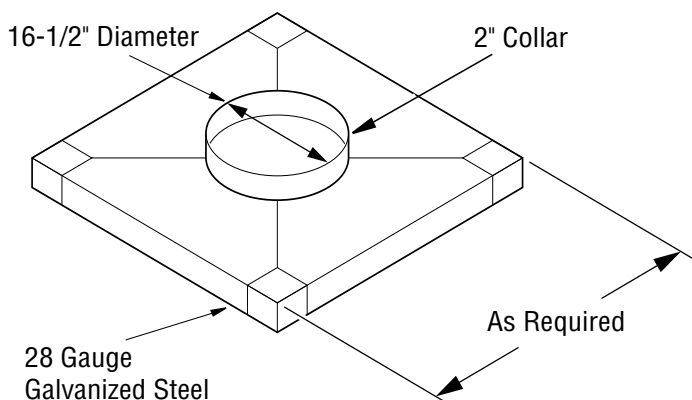


Figure 19 - Constructing Chase Top Flashing

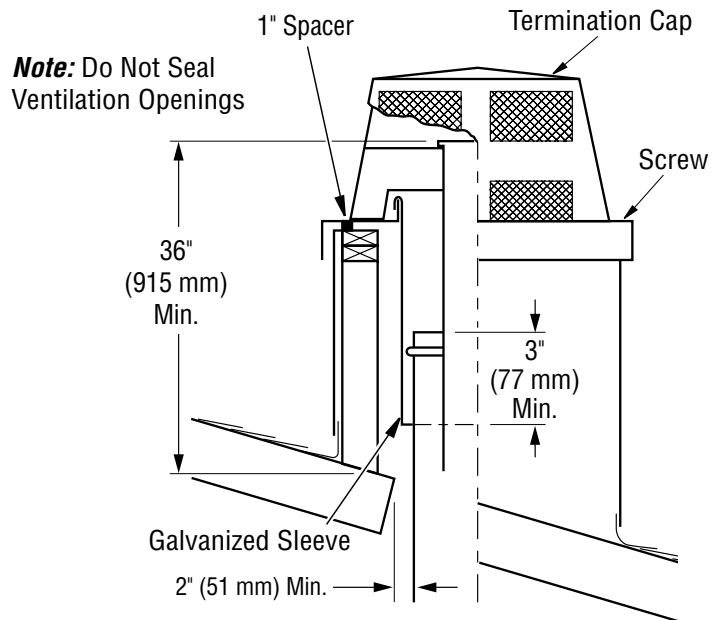


Figure 20 - Installing Termination Cap

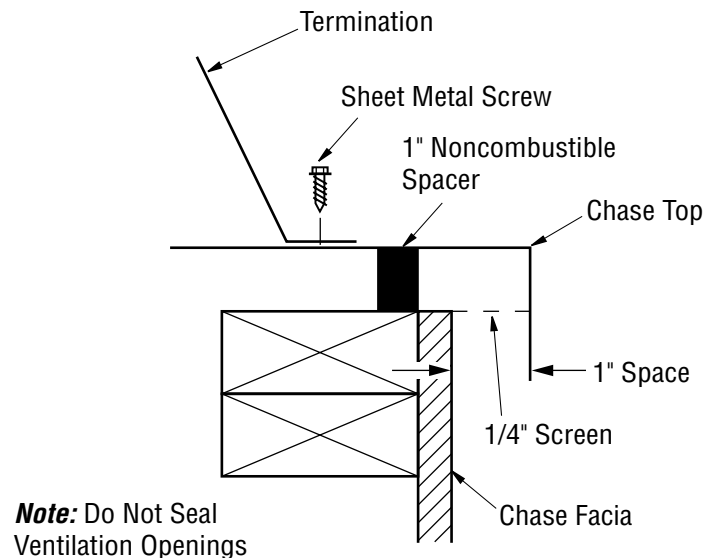


Figure 21 - Securing Termination to Chase Top Flashing with Sheet Metal Screws

INSTALLATION *Continued*

ROUND TOP TERMINATIONS INSTALLATION RLT-12D, AND RLT-12HT

1. Construct chase as illustrated in Figure 22. **Note:** The shortest vertical side must be at least 30" high and the minimum inside dimension must be at least 19" as shown in Figure 22.
2. Add pipe sections to chimney system as outlined in fireplace installation instructions until the last piece of chimney is a minimum of 6" above chase top (see Figure 22).
3. Fabricate a flashing having a 16-1/2" diameter hole centered over chimney end with a 2" collar around hole (see Figure 23).
4. Attach noncombustible spacers at each corner and place flashing over chase (see Figure 24). Secure flashing through sides with 8-penny nails or sheet rock screws.
5. Place termination cap over opening. Slip stainless steel inner pipe of termination into inner stainless steel chimney section (see Figure 25). Place galvanized steel over chimney outlet (see Figure 26).
6. Attach storm collar where chimney pierces opening in flashing. Caulk where storm collar touches outer chimney pipe (see Figure 26).

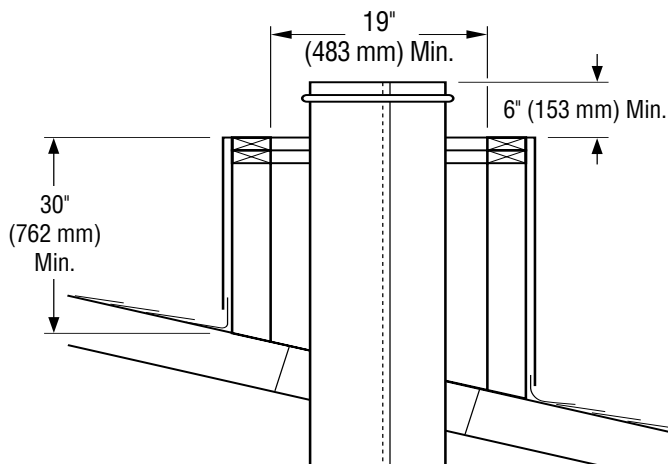


Figure 22 - Constructing Chase

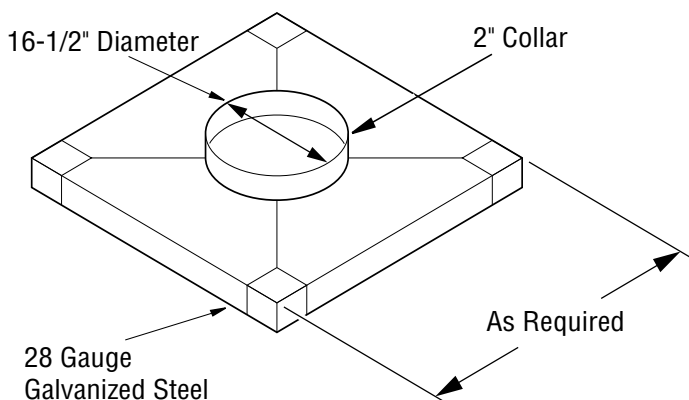


Figure 23 - Constructing Chase Top Flashing

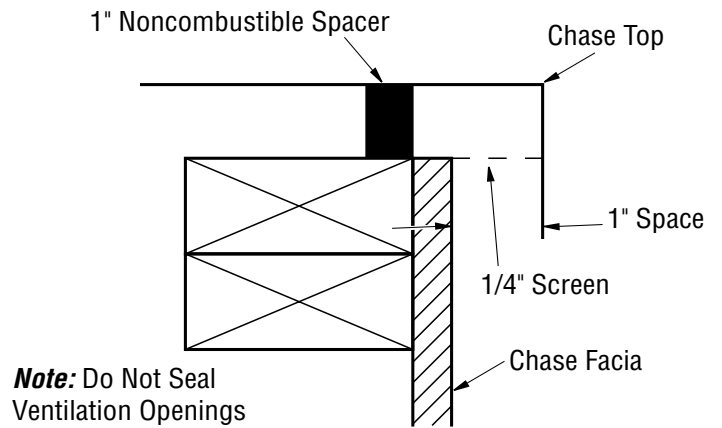


Figure 24 - Chase Top Flashing

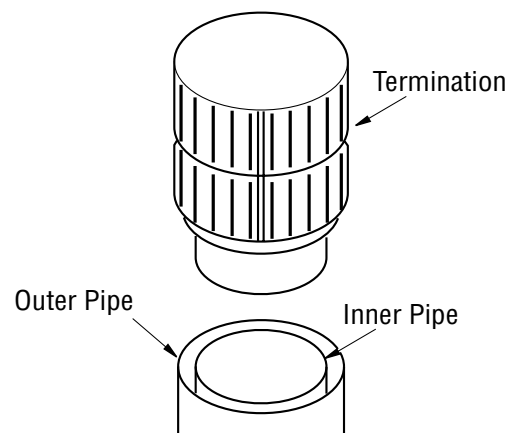


Figure 25 - Installing Termination Cap

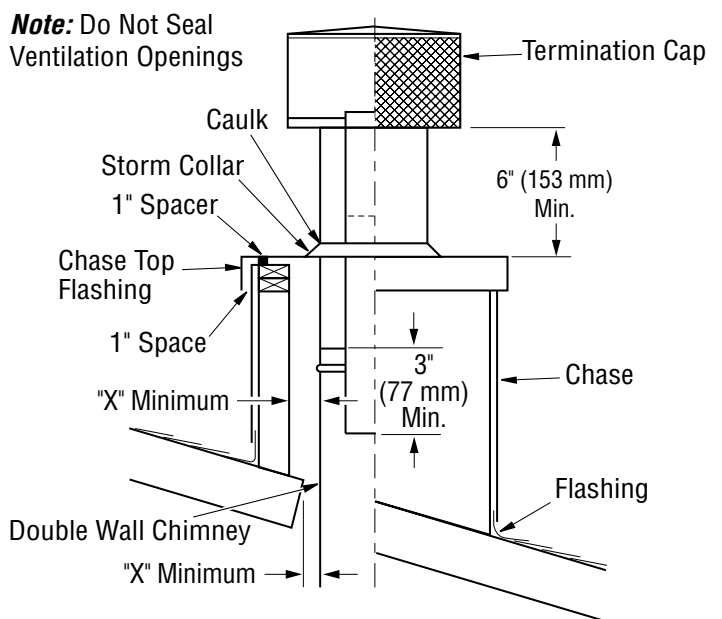


Figure 26 - Chase Installation

INSTALLATION *Continued*

NONCHASE INSTALLATION

1. Slip on proper pitch roof flashing and mount storm collar above it. Caulk top of storm collar where it contacts outer chimney pipe.
2. Mount round top termination and secure it to outer chimney pipe with 3 sheet metal screws.

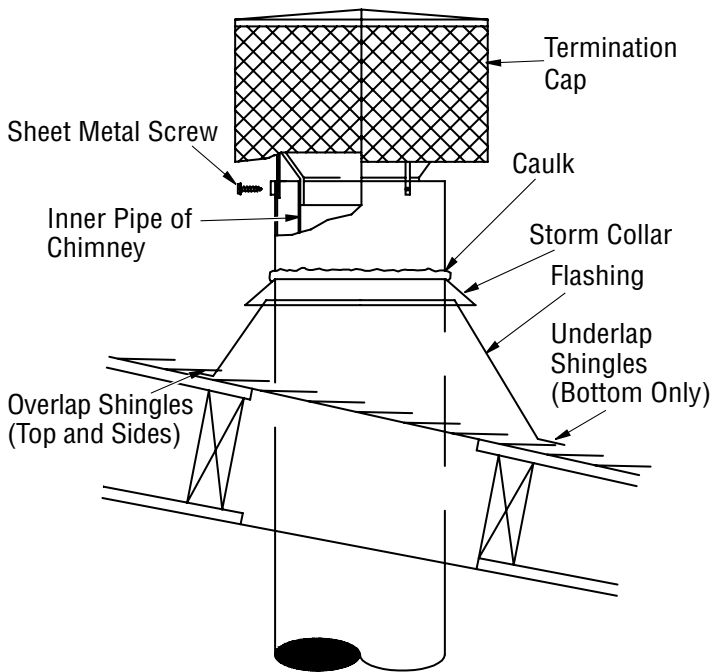


Figure 27 - Non-Chase Installation

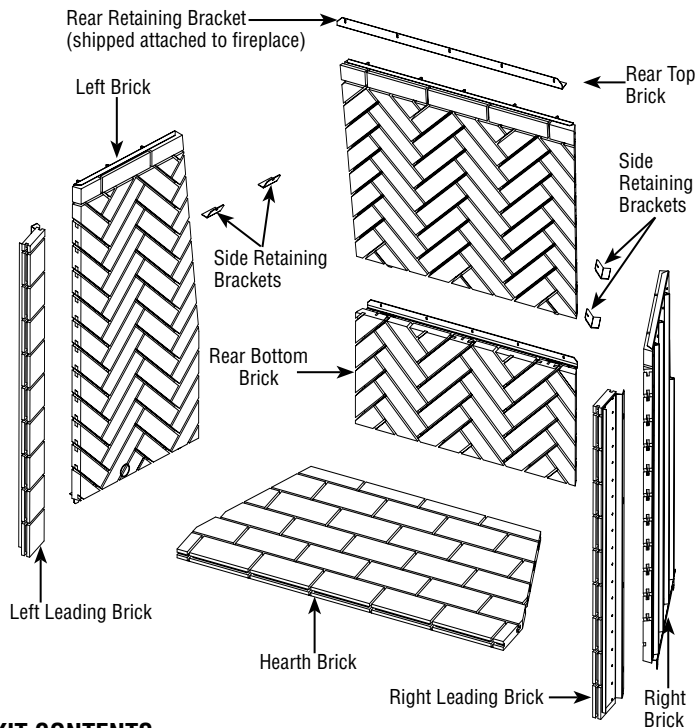
FINISHING FIREPLACE

Combustible materials, such as wallboard, sheet rock, drywall, plywood, etc. may make direct contact with sides and top around the fireplace face. It is important that combustible materials do not overlap face itself. Brick, glass, tile or other noncombustible materials may overlap front face provided they do not obstruct essential openings like louvered slots or any other opening. When overlapping with a noncombustible facing material, use only noncombustible mortar or adhesive.

NOTE: A Mosaic Masonry panel kit is required for use with your Citadel48 Firebox. (Not supplied, see **Page 21** for models available.)

INSTALLATION *Continued*

REFRACTORY KIT INSTALLATION INSTRUCTIONS



KIT CONTENTS

- (1) ea. Right Leading Brick
- (1) ea. Left Leading Brick
- (1) ea. Hearth Brick
- (1) ea. Rear Top Brick
- (1) ea. Right Brick
- (1) ea. Left Brick
- (1) ea. Rear Bottom Brick
- (1) ea. Grout Touchup Kit
- (2) ea. Grate Retainers
- (2) ea. 3/16" x 1-1/4" Masonry Screws
- (2) ea. Cotter Pins
- (2) ea. Push on Nuts
- (4) ea. Side Retaining Brackets
- (1) ea. Rear Retaining Bracket
- (22) ea. 10-16 x 1/2" Type AB L/S BLK Screw
- (1) ea. Installation Instructions

GENERAL INFORMATION

Read this instruction sheet in its entirety before beginning the installation.

These instructions must be left with the appliance.

All warnings, precautions, and instructions in the Installation Instructions provided with the appliance also apply to these instructions.

If you encounter any problems, need clarification of these instructions, or are not qualified to properly install this kit, contact your local distributor or dealer.

Refractory panels may be heavy for some individuals. If this is the case, please request help from someone else.

UNPACKING NEW REFRACTORY KIT

1. Remove the screws holding the lid on the crate using a Phillips screwdriver or bit. Remove the cartoned grout, bracket kit, and panels.
2. Arrange panels on top of packing and identify each piece in order of assembly.
3. Check all items for any shipping damage. If damaged, contact your authorized dealer of this product. Be sure to have your kit model number when you contact your dealer.

FIREBRICK WALL INSTALLATION

IMPORTANT: Installation of brick should be done after the fireplace is placed in a permanent location.

Before installation, remove the following from fireplace. Cut the tie strap to remove plastic bag holding fasteners and instructions. Remove screens and set grate aside.

1. Install hearth brick panel. Using at least two people, hold hearth brick panel by its side edges. Place the back edge of hearth brick panel into the firebox first and carefully lower the front edge of panel. Make sure hearth brick panel is centered in the firebox and flush with the front of the fireplace. Be careful not to pinch your fingers between the hearth brick panel and firebox (**Figure 28**).

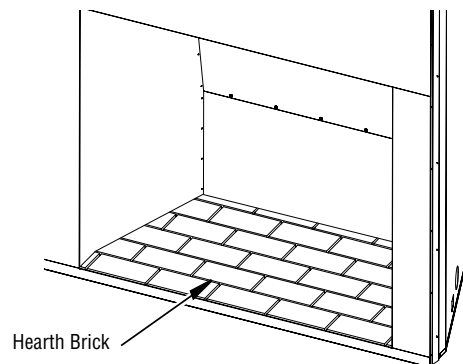


Figure 28 - Installing Hearth Brick Panel

2. Place a piece of cardboard on the hearth brick panel before installing the remaining panels. This will help protect the hearth and also ensure a clean appearance by eliminating noticeable footprints, etc.
3. Install the left and right leading brick panels. Fit left leading brick panel flush with fireplace front. Then, slide left leading panel back against fireplace and secure using the 4 provided fasteners. Repeat steps to install the right leading brick panel.

WARNING



**LIFTING HAZARD
SINGLE -PERSON LIFT COULD
CAUSE INJURY.
USE ASSISTANCE WHEN MOVING OR
LIFTING.**

IMPORTANT: Installation of brick panels should be done after the fireplace is placed in a permanent location.

WARNING: Contact an IHP dealer to obtain any of these parts. Never use substitute materials not approved by IHP. Use of non-approved parts can result in poor performance and safety hazards.

TOOLS NEEDED

- | | |
|-------------------------------|----------------------------|
| Tape Measure | No. 2 Phillips Screwdriver |
| Marking Pen | 5/16" Nut Driver |
| Drill | 1/8" Masonry Drill Bit |
| Pliers | Joint Striking Tool |
| Large Flat Bladed Screwdriver | Brush |

INSTALLATION *Continued*

- Install the left and right brick panels. Place left brick panel inside the fireplace (there is a bracket with 2 tabs on the bottom of each brick panel). Angle the panel and position it so the tabs are lined up with the slots in the bottom of the fireplace. Once they are lined up, lift the left brick panel into position (**Figure 29**). Next, take a large flat bladed screwdriver and apply pressure at the rear of the panel and adjust so there is a good tight joint between the left brick panel and left leading brick panel (**Figure 29A**). **NOTE: Large bladed Screwdriver is to be used only on the rear side of the panel. The use of excessive force when adjusting joints can cause panels to chip.** Repeat steps to install the right brick panel.

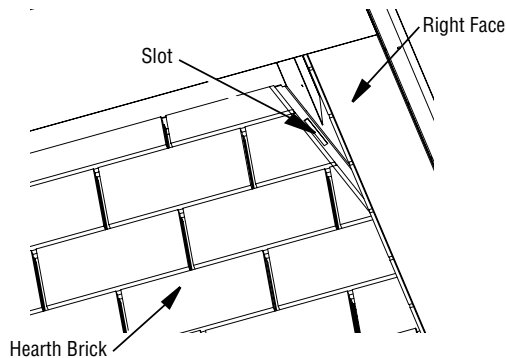


Figure 29 - Slots for Brick Panels

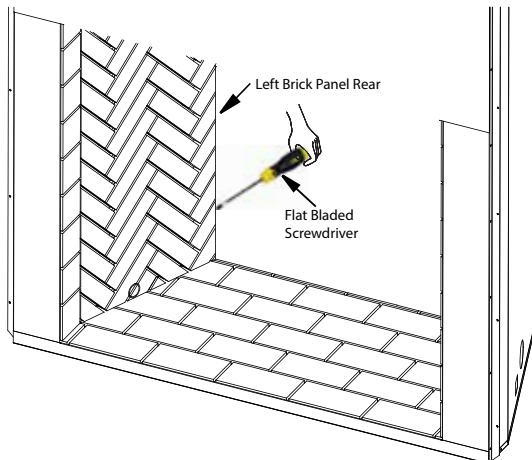


Figure 29A- Tight Joint Adjustment

- Secure both the left and right brick panels using two (per side) of the side retaining brackets provided. Align bracket with holes located on the inner dome of the fireplace. The bracket will slip underneath the metal lip on the top of the panel and screw into the inner dome of the fireplace (**Figure 30**).

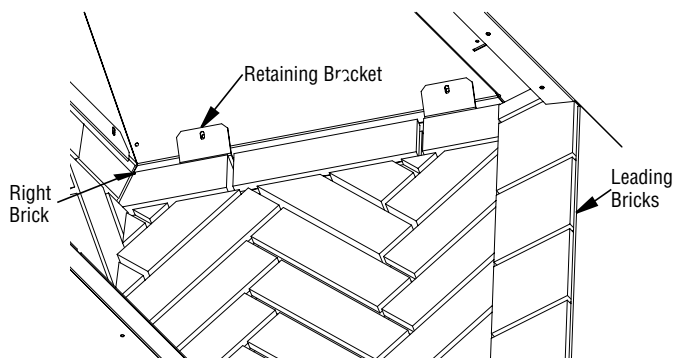


Figure 30 - Securing Left & Right Brick Panels

- Install the rear bottom brick panel. Place the panel face side down on the hearth with the bottom of the panel toward the rear of the firebox and the top toward the front of the fireplace. Tilt the panel up toward the back of the firebox. Secure bracket at top of the brick panel to the rear firebox surround (**Figure 31**).

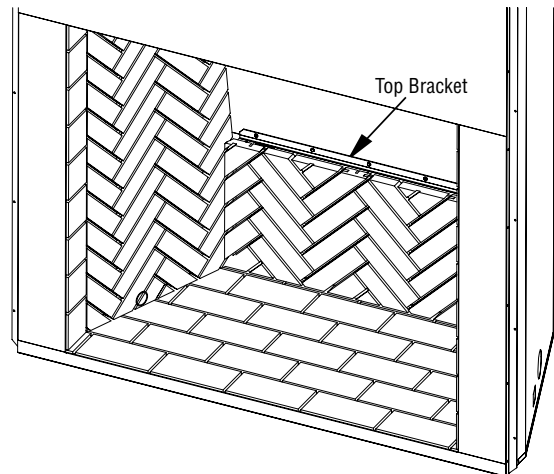


Figure 31 - Installing Rear Bottom Brick Panel

NOTE: Once the rear bottom brick panel is installed, all panels are fixed. Before proceeding to #7, take a large flat bladed screwdriver and adjust to ensure a good tight joint between all panels. **The use of excessive force when adjusting joints can cause panels to chip.**

- Install the rear top brick panel. Lift the panel up with the front of the brick panel facing toward the front of the fireplace. The bottom of the panel has two tabs that slide into the bracket on the top of the rear bottom brick panel (**Figure 32**). Secure the top of the rear top brick panel with the rear retaining bracket (shipped with fireplace). The bracket will slip underneath the metal lip on the top of the brick panel and screw into the inner dome of the fireplace (**Figure 33**).

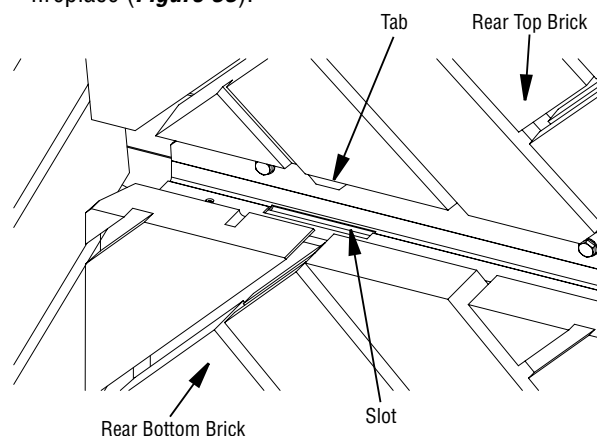


Figure 32 - Installing Rear Top Brick Panel

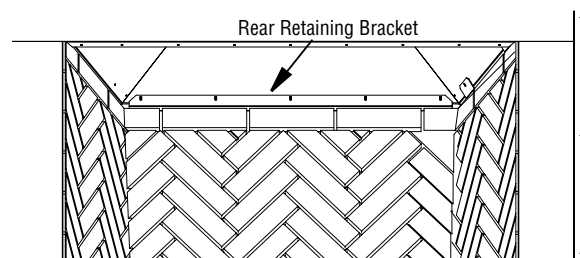


Figure 33 - Installing Rear Retaining Bracket

INSTALLATION *Continued*

8. Install the (2) provided grate retainers that hold the grate in place on the hearth brick panel (**Figure 34**). The back of the retainer will be flush with the rear firebox wall. Mark the hole locations with a marker. Next, take a 1/8" masonry drill bit and drill pilot holes in the marked locations. Secure the grate retainer with masonry screws provided.

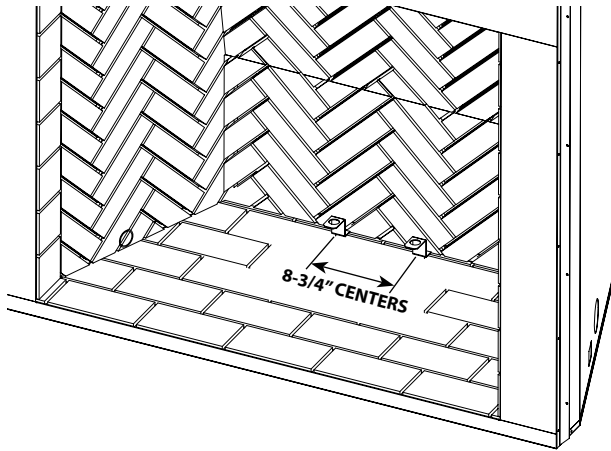


Figure 34 - Installing (2) Grate Retainers

⚠ WARNING: Risk of fire! Replace grate with IHP grate only (see Parts, page 20). This grate has been designed to keep the operation of your fireplace safe and efficient.

9. Grouting the fireplace is recommended so that the joints between all firebrick walls have a more finished look.

Material provided:

Bag of cement
Bag of sand

Material required:

Grout Piping bag
Joints striker
Heavy duty mixing bucket
Sponge or Wet Cloth

To grout fireplace:

- Begin by moistening brick surface with damp sponge or spray bottle just prior to application. When bricks are wet, any excess grout mixture on bricks will easily wipe off.
- In a heavy duty mixing bucket, add equal parts cement and sand. Add enough water and mix together well using a power drill with mixing wand attachment to a yogurt like consistency. Not adding enough water can lead to grout falling out after burning.
- The overall length of grout piping bag should be about 16". If the bag is longer than 16", cut it down to size by removing end with larger opening. This will make the bag easier to handle
- Put grout mixture into grout piping bag making sure the smaller opening is downward and over a moist towel to avoid spilling. Place a wet towel over the bucket making sure it is directly on the surface of grout mixture. This will keep the mixture moist and it will not dry out before use.

- Grout all joints where two firebrick walls come together.
Note: Do not grout gap at very top of firebrick walls.
- Using a trowel, remove excess grout mixture by moving trowel in the direction of the joint. Grout mixture in the joint should now be flush with brick surface. If not enough grout is applied into each space, grout may fall out after burning. Using a joint striker, smooth out grout line. Once all the joints are struck, take a paint brush and clean the joints up creating a nice clean finish inside the fireplace.

Allow 72 hours before operating fireplace.

10. To Install Screen:

- Begin by sliding round end of screen rod into rings at top of screen.
- Attach one push-on nut to end of rod before attaching last ring of screen.
- Bend tab on both sides with the hole down to insert the round end screen rod into hole on the left and right side of smoke shelf (**Figure 35**).
- Mount flat end of screen rod with #10 x 5/8" to center of smoke shelf.

Install other screen rod in same manner.

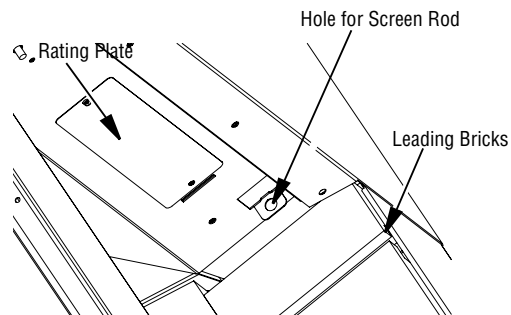


Figure 35 - Installing Fireplace Screen

OPTIONAL GAS LINE INSTALLATION

Gas line hook up should be done by your supplier or a qualified service person.

Note: Before you proceed, make sure your gas supply is turned off. Use only a 1/2" black iron pipe and appropriate fittings.

1. Remove knockout indentation on refractory or firebrick wall located above refractory hearth floor. Knockout indentation must be firmly tapped with any solid object such as a 1/2" dowel until it is released. Remove fragmented portions of refractory (see Figure 36).
2. Remove gas line cover plate located on either side of fireplace and pull out insulation from gas line conduit sleeve. Save insulation for reuse. Replace screws.
3. Run a 1/2" black iron gas line into fireplace through the rear at gas line conduit sleeve (if using a raised platform, add height). Provide sufficient gas line into fireplace chamber for fitting connection (see Figure 37).

Note: Secure incoming gas line to wood framing to provide rigidity for threaded end.

4. Repack insulation around gas line and into sleeve opening. Seal any gaps between gas line and refractory knockout hole with refractory cement or commercial furnace cement. Install the gas appliance or cap-off gas line if desired.

INSTALLATION *Continued*

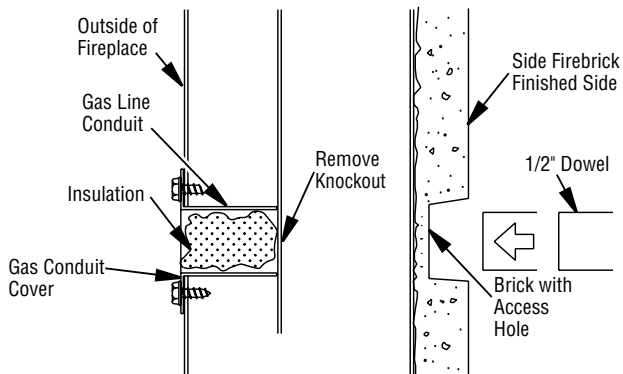


Figure 36 - Gas Line Access

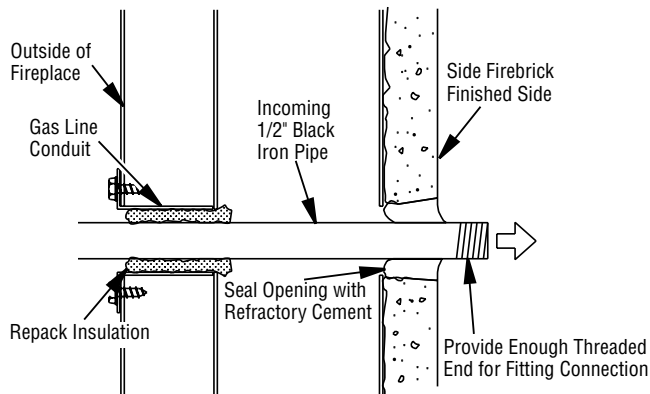


Figure 37 - Gas Line Installation

CAUTION: All gas piping and connections must be tested for leaks after the installation is completed. After ensuring that the gas valve is on, apply soap and water solution to all connections and joints. Bubbles forming show a leak. Correct all leaks at once. **DO NOT USE AN OPEN FLAME FOR LEAK TESTING AND DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED. LEAK TESTING SHOULD BE DONE BY A QUALIFIED SERVICE PERSON.**

WARNING: Do not operate an unvented gas log set in this fireplace with the chimney removed.

If you install a decorative gas appliance (vented gas log), the decorative gas appliance must comply with the Standard for Decorative Gas Appliance for Installation in Solid Fuel Burning Fireplaces, ANSI Z21.60 or Z21.84 and shall also be installed in accordance with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 latest edition.

WARNING: If the fireplace has been used for wood burning, the firebox and chimney must be cleaned of soot, creosote and ashes by a qualified chimney cleaner. Creosote will ignite if heavily heated.

WARNING: When using a decorative vented gas log, the damper must be removed or permanently locked in the fully open position and the glass doors must be in the fully open position.

GLASS DOOR INSTALLATION

IMPORTANT: Install top and bottom rails and hardware before installing glass door panels.

Rail installation

1. Remove screws securing top face to firebox (see Figure 38).
2. Align holes on rail to be installed at top and replace screws. Note: Door rails are identical until spring clips are in place.
3. Using remaining door rail as a template, place along front row of bricks at bottom making sure rail front surface is flush with fireplace bottom face surface. Mark hole centers and remove rail (see Figure 38).
4. Drill 9 - 5/32" diameter holes about 1" deep directly into bricks using a 5/32" concrete drill bit (not provided).
5. Place rail back on bricks and align holes. Secure using 9 concrete screws provided with glass door kit.
6. Secure retaining clips to top and bottom rails (see Figure 39).

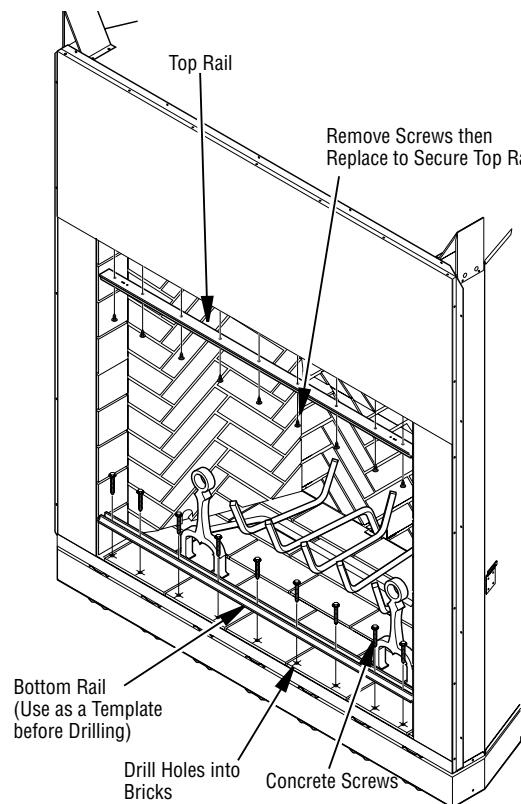


Figure 38 - Securing Door Rails to Fireplace

INSTALLATION *Continued*

DOOR ADJUSTMENT

Remove doors and slightly loosen upper spring clips. Replace and fully close doors. Use 1/8" shims (any material) to level doors. Once proper setting is achieved, carefully open doors enough to access top retaining clips with a phillips screwdriver. Tighten screws. See Figure 41.

⚠ WARNING: Do not slam or strike doors. Damage can result in a hazardous condition.

WARNING: Discontinue use of the appliance immediately if doors are damaged and contact a qualified installer for repair. Only doors certified with the appliance shall be used.

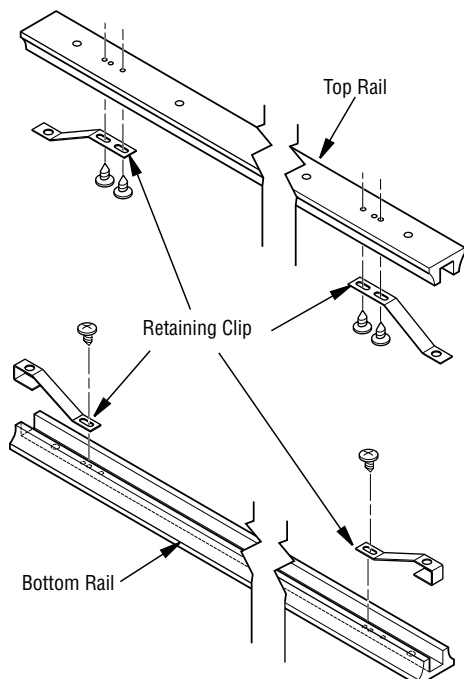


Figure 39 - Mounting Door Retaining Clips

Installing Glass Doors

After spring clips have been installed some adjustments may be needed. Install the doors using the following steps:

1. With bi-fold doors completely folded, insert bottom pivot pin into bottom retaining clip located at far left and far right side of bottom rail. Swing door to vertical position making sure top pins slide into top door rail. Door is installed when top door pin snaps into spring clip (see Figure 40).
2. Repeat step 1 for remaining door.

If you find the doors do not close properly or do not appear level or straight, proceed with section on door adjustment.

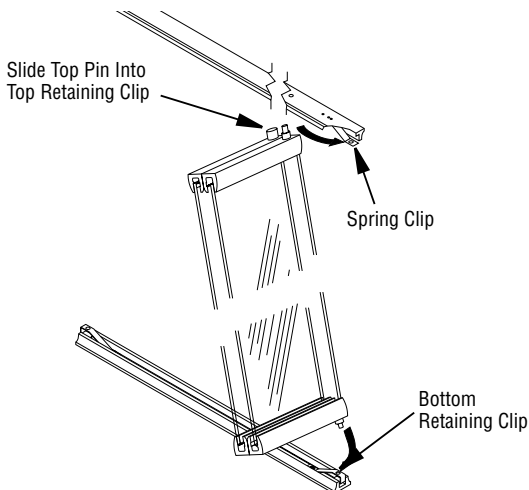


Figure 40 - Installing Doors

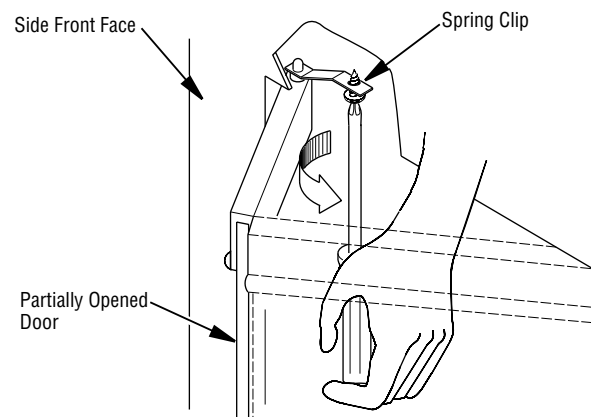


Figure 41 - Adjusting Bi-Fold Doors

OPERATION AND MAINTENANCE

GLASS DOORS

Glass doors are optional with fireplace. When fireplace is in operation, doors must be fully opened or fully closed position only or a fire hazard may be created (see Figure 42).

A fireplace equipped with glass doors operates much differently than a fireplace with an open front. A fireplace with glass doors has a limited amount of air for combustion.

Excessive heat within the fireplace can result if too large a fire is built or if combustion air gate is not completely open. The following tips should be followed to assure that both the fireplace and glass door retain their beauty and function properly. Both the flue damper and glass doors must be fully opened before starting fire. This will provide sufficient combustion air and maintain safe temperatures in firebox.

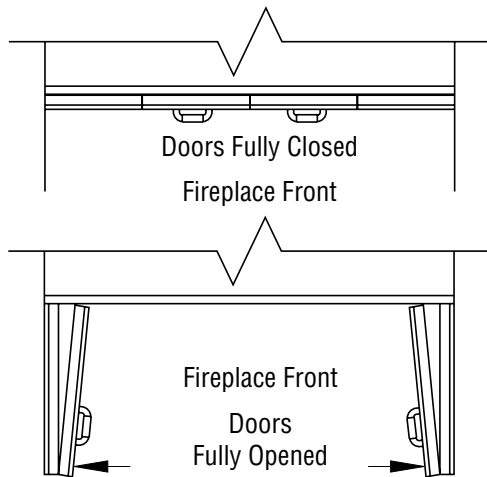


Figure 42 - Bi-Fold Glass Doors

IMPORTANT: The glass must be allowed to warm slowly and evenly. Such materials as pitch/wax laden logs, very dry mill end lumber and large amounts of paper or cardboard boxes can create an excessively hot fire and should not be burned in this fireplace. Always keep the fire well back from the doors and never allow flames to contact the glass.

⚠ WARNING: Fireplaces equipped with glass doors should be operated only with doors fully opened or doors fully closed. Doors, if left partly open, may draw gas and flame out of the fireplace opening creating risks of both fire and smoke.

Cleaning Glass

Clean glass with any commercial glass cleaner or soap and water. Do not use any abrasive material to clean glass. Do not clean glass with any cool water if glass is still hot from the fire and smoke.

A gas line or gas log lighter may be installed for the purpose of installing a vented or vent-free decorative gas appliance incorporating an automatic shutoff device and complying with the Standard for Decorative Gas Appliances for Installation in Vented Fireplaces, ANSI Z21.60 or American Gas Association draft requirements for Gas Fired Log Lighters for Wood Burning Fireplaces, Draft NO. 4 dated August, 1993.

If you wish to install an unvented (vent-free) gas log set, only unvented gas log sets which have been found to comply with the standard for unvented room heaters, ANSI Z21.11.2 are to be installed in this fireplace.

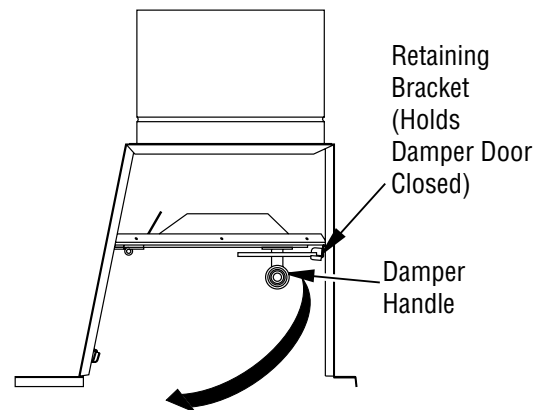
DAMPER HANDLE OPERATION

The damper handle opens and closes the damper blade and is located in the upper rear side of fireplace just above rear bricks. Rotate handle counterclockwise slightly to disengage from retaining bracket. Swing slowly toward opening of fireplace. Engage handle to secondary bracket located at front of fireplace inner wall (see Figure 43). Damper must be locked in the full open position before operating fireplace (see Figure 43).

⚠ CAUTION: When operating damper door, please be aware of sharp edges and corners. Open and close damper door slowly to avoid injury.

⚠ WARNING: Risk of fire! Replace grate with IHP Cat. No. (J4345) grate only. This grate has been designed to keep the operation of your fireplace safe and efficient.

FULLY CLOSED POSITION



Swing Door Down to Open

FULLY OPEN POSITION

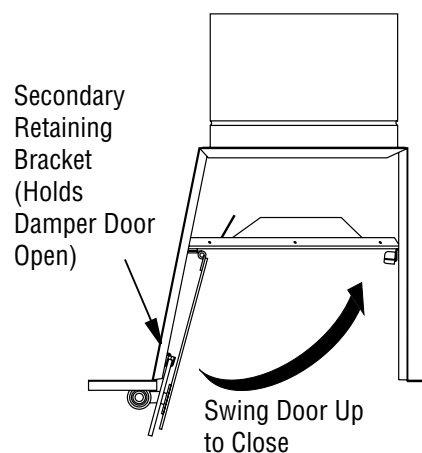


Figure 43 - Operating Damper Handle

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. Please contact your IHP dealer for any questions or concerns a. When contacting your dealer please have your model and serial numbers of your fireplace ready. You can also visit our web site at Astria.us.com.

REPLACEMENT PARTS

See Pages 20 and 21 for a complete replacement parts list. Use only parts supplied from the manufacturer.

Normally, all parts should be ordered through your IHP distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the fireplace.
2. The serial number of the fireplace.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the fireplace.

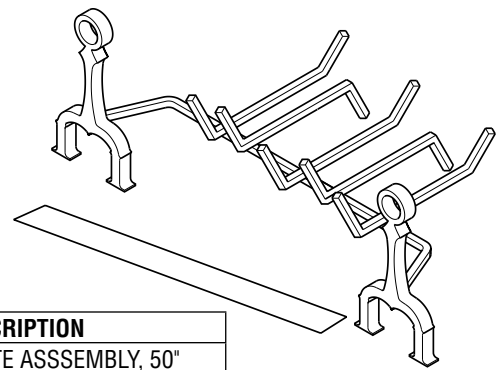
Model and serial number information will be found on the fireplace's rating plate located just inside the fireplace opening on the upper right hand side beneath a cover plate. Remove both the cover plate and wing nut to access the rating plate.

If you encounter any problems or have any questions concerning the installation or application of this fireplace, please contact your dealer.

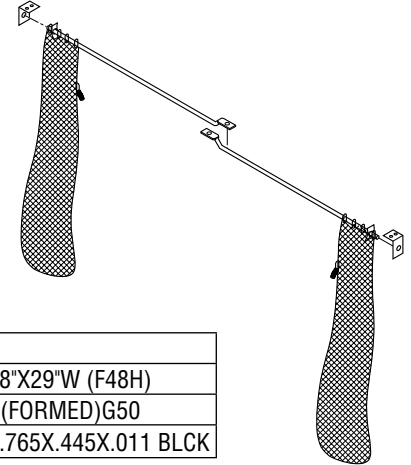
IHP

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Russellville, AL 35654
Visit us at Astria.us.com

PARTS



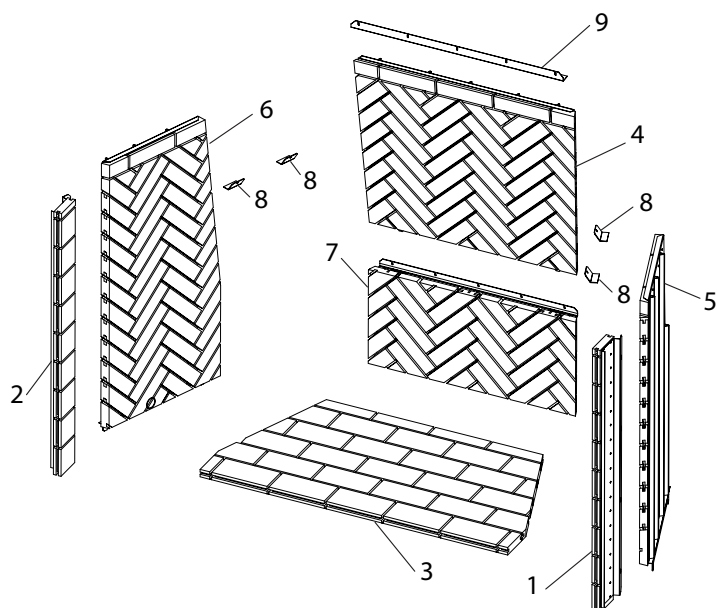
CATALOG NO.	DESCRIPTION
J4345	GRATE ASSEMBLY, 50"
J6906	PROTECTOR, EMBER EP 36



CATALOG NO.	DESCRIPTION
J5351	SCREEN, 43 5/8"X29"W (F48H)
J4390	ROD, SCREEN (FORMED)G50
J4956	NUT PUSH-ON.765X.445X.011 BLCK

PARTS *Continued*

Mosaic Masonry Brick Reference Information				
Cat. No.	Model No.	Description	Shipping Wt.	Shipping Vol.
F4253	MOSAIC48WRSH	Masonry 48" Warm Red Split Herringbone	630 lbs.	29.8 cu. ft.
F4254	MOSAIC48IVSH	Masonry 48" Ivory Split Herringbone	630 lbs.	29.8 cu. ft.
F4545	MOSAIC48SGSH	Masonry 48" Slate Grey Split Herringbone	630 lbs.	29.8 cu. ft.
F4546	MOSAIC48MISH	Masonry 48" Midnight Split Herringbone	630 lbs.	29.8 cu. ft.



⚠ WARNING



LIFTING HAZARD
SINGLE -PERSON LIFT
COULD CAUSE INJURY.
USE ASSISTANCE WHEN
MOVING OR LIFTING.

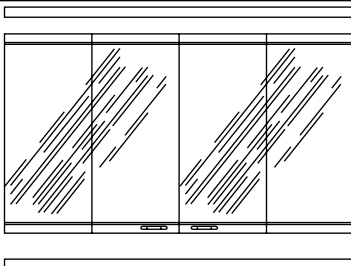
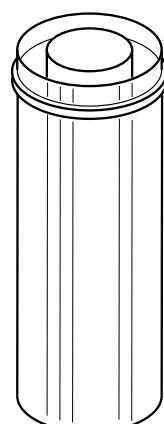
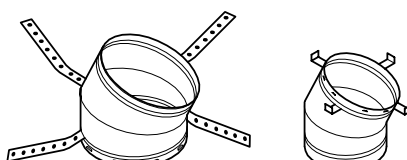
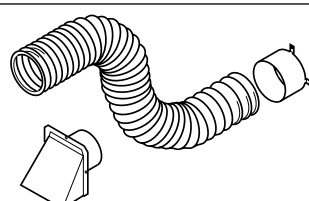
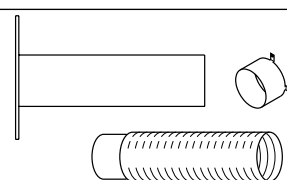

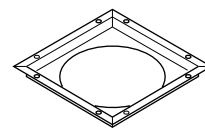
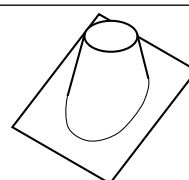
IMPORTANT: Installation of brick panels should be done after the fireplace is placed in a permanent location.

⚠ WARNING: Contact an IHP dealer to obtain any of these parts. Never use substitute materials not approved by IHP. Use of non-approved parts can result in poor performance and safety hazards.

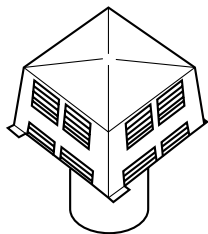
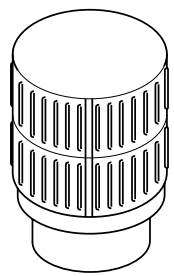
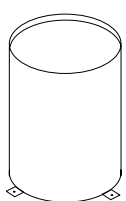
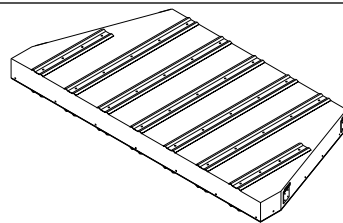


KEY NO.	CATALOG NO.	DESCRIPTION	F4253	F4254	F4545	F4546	QTY.
1	*	Right Leading Brick Warm Red	•				1
1	*	Right Leading Brick Ivory		•			1
1	*	Right Leading Brick Slate Grey			•		1
1	*	Right Leading Brick Midnight				•	1
2	*	Left Leading Brick Warm Red	•				1
2	*	Left Leading Brick Ivory		•			1
2	*	Left Leading Brick Slate Grey			•		1
2	*	Left Leading Brick Midnight				•	1
3	*	Hearth Warm Red	•				1
3	*	Hearth Ivory		•			1
3	*	Hearth Slate Grey			•		1
3	*	Hearth Midnight				•	1
4	*	Rear Top Warm Red	•				1
4	*	Rear Top Ivory		•			1
4	*	Rear Top Slate Grey			•		1
4	*	Rear Top Midnight				•	1
5	*	Right Warm Red	•				1
5	*	Right Ivory		•			1
5	*	Right Slate Grey			•		1
5	*	Right Midnight				•	1
6	*	Left Warm Red	•				1
6	*	Left Ivory		•			1
6	*	Left Slate Grey			•		1
6	*	Left Midnight				•	1
7	*	Rear Bottom Warm Red	•				1
7	*	Rear Bottom Ivory		•			1
7	*	Rear Bottom Slate Grey			•		1
7	*	Rear Bottom Midnight				•	1
8	J6051	Side Retaining Brackets	•	•	•	•	4
9	J6502	Rear Retaining Brackets	•	•	•	•	1

*** ORDER COMPLETE PANEL SET**

ACCESSORIES

BI-FOLD GLASS MASONRY DOOR			
CAT NO.	MODEL	DESCRIPTION	
F1017	BDM048EA	48" Masonry Ceramic Glass Bi-Fold Door - Ebony	
DOUBLE WALL PIPE			
F0932	12-12DM	12" Section Double Wall Pipe Snap Lock	
F0933	18-12DM	18" Section Double Wall Pipe Snap Lock	
F0934	24-12DM	24" Section Double Wall Pipe Snap Lock	
F0935	36-12DM	36" Section Double Wall Pipe Snap Lock	
F0936	48-12DM	48" Section Double Wall Pipe Snap Lock	
F0953	12-12HT	12" Section Hi-Temp Double Wall Pipe Snap Lock	
F0954	18-12HT	18" Section Hi-Temp Double Wall Pipe Snap Lock	
F0955	24-12HT	24" Section Hi-Temp Double Wall Pipe Snap Lock	
F0956	36-12HT	36" Section Hi-Temp Double Wall Pipe Snap Lock	
F0957	48-12HT	48" Section Hi-Temp Double Wall Pipe Snap Lock	
30° OFFSET AND RETURN			
F0937	30E-12DM	30 Degree Offset and Return	
F0958	30E-12HT	30 Degree Hi-Temp Offset and Return	
OPTIONAL OUTSIDE AIR KIT FOR FLOOR INSTALLATION			
F1091	AK4	Complete Outside Air Kit w/Collars Hood & 3' Flex	
OPTIONAL OUTSIDE AIR KIT FOR SIDEWALL INSTALLATION			
F1093	AK4F	Outside Air Kit Collar, Hood & 3' Flex for Floor Venting	
STORM COLLAR			
F0946	SC2-1	Storm Collar	
FIRESTOP SPACER			
F0940	FS-10	2" Clearance Firestop Spacer	
ROOF FLASHING			
F0942	V6F-10DM	Roof Flashing 0 to 6/12 Pitch	
F0943	V12F-10DM	Roof Flashing 6/12 to 12/12 Pitch	

ACCESSORIES *Continued*

SQUARE CHASE-TOP TERMINATION			
CAT NO.	MODEL	DESCRIPTION	
F0948	STL-12D	Square Top Termination with Slip Section	
ROUND TOP TERMINATIONS			
F0947	RLT-12D	Round Top Termination with Louvered Screen	
F0960	RLT-12HT	Hi-Temp Round Top Termination with Louvered Screen	
FIRESTOP THIMBLE			
F0944	FST10	Thimble 10"	
OPTIONAL HEARTH SPACER			
F0971	HS48	48" Combustible Floor Protective Hearth Spacer (Citadel Only)	
LABEL-UL127-50PK			<div><div><p>WARNING HOT</p><p>• Fire Risk • Insulation and combustibles must not touch pipe • Consult manual for clearance requirements • Ensure proper connection</p></div><div><p>insulation must touch</p><p>insulation must touch</p><p>insulation must touch</p><p>LOH HOT</p><p>insulation must touch</p><p>insulation must touch</p><p>insulation must touch</p></div><div><p>WARNING HOT</p><p>• Fire Risk • Insulation and combustibles must not touch pipe • Consult manual for clearance requirements • Ensure proper connection</p></div></div>
F2659	LABEL-UL127-50PK	UL127 Venting Label - 50 PK	

IMPORTANT NOTICES - CANADA

Canadian code CAN/ULC-S610-M87 and other pertinent codes require stainless steel chimney for the installation of this fireplace. A Cold Air Climate Kit is also required in Canada and is recommended for cooler regions in the United States. Below, find a list of approved stainless steel parts.

Chimney Parts List for Canada

Catalog No.	Model No.	12" Hi-Temp Wood-burning Chimney
F0953	12-12HT	12" Section Double Wall Pipe
F0954	18-12HT	18" Section Double Wall Pipe
F0955	24-12HT	24" Section Double Wall Pipe
F0956	36-12HT	36" Section Double Wall Pipe
F0957	48-12HT*	48" Section Double Wall Pipe
F0958	30E-12HT	30" Offset and Return
F0959	12S-12HT	Chimney Support
F0960	RLT-12HT*	Round Top w/ Louvers
F0961	AP-12HT	Anchor Plate/Collar Assembly (Masonry Fireplaces)
F0951	CAK-12	Cold Air Collar Kit

*When ordered alone, this part cannot ship via parcel delivery services.

IMPORTANT NOTICE

A manufactured shroud which has been approved by a national testing agency for use with this fireplace may be used if installed in accordance with the instructions by its manufacturer. A locally fabricated shroud may be used with IHP Shroud Leg Spacer Kit (SLK) in accordance with instructions provided with the shroud.

NOTICE: The firebox canopy (hood) must not be modified or replaced with a canopy that may be provided with the un-vented decorative room heater.

CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL, AND CEILING/ROOF MUST BE MAINTAINED.

WARNING: DO NOT INSTALL IN SLEEPING ROOM OF MOBILE HOMES.

APPENDIX A

Draft Requirements

Your wood-burning appliance is dependent upon a properly functioning chimney for optimum performance. It is important to match the wood-burning appliance to the chimney. The chimney has two functions:

1. It draws combustion air into the appliance (without air, no fuel will burn) and
2. It exhausts combustion by-products. Your new appliance is what is known as a “natural draft” appliance.

The appliance depends solely on the natural draft of the chimney system to draw combustion air into the unit. Draft is the force that moves air from the appliance up into the chimney. The amount of draft in your chimney depends on the length of the chimney, local geography, nearby obstructions and other factors. Too much draft may cause excessive temperatures in the appliance (overfiring). Slow or inadequate draft equals poor combustion and possible smoking problems. The following are some conditions that may contribute to poor chimney draft:

1. A chimney too large for your appliance.
2. A chimney with not enough height to produce adequate draft.
3. A chimney with excessive height (this may allow exhaust to cool too much before exiting, which will stall the rate the exhaust exits).
4. Offsets in the venting system are too restrictive (*see Chimney Guidelines*).

Inadequate draft will cause the appliance to leak smoke into the room through the wood-burning appliance and the chimney connector joints. Excessive draft may cause an uncontrollable burn or a glowing red appliance or chimney part.

Overfiring Damage - If the appliance or chimney connector glows, you are overfiring. Other symptoms may include: Cracking, warping or burning out of components, plated accessories may turn color, appliance glass may develop a haze, which will not come off with cleaning.

Overfiring of a appliance is a condition where excessive temperatures are reached, beyond the design capabilities of the appliance. The damage that occurs from overfiring is not covered under the manufacturer's limited warranty.

Also see Troubleshooting on Page 26.

WARNING

Neither the manufacturer nor the seller warrants “smoke free” operation nor are we responsible for inadequate system draft caused by mechanical systems, general construction conditions, inadequate chimney heights, adverse wind conditions and/or unusual environmental factors or conditions beyond our control.

Selecting the Proper Venting System

The appliance is merely one component of a larger system. The other equally important component is the venting system. This is necessary for achieving the required flow of combustion air to the fire chamber and for safely removing unwanted combustion by products from the appliance.

If the venting system's design does not promote these ends, the system may not function properly. Poorly functioning venting systems may create performance problems as well as be a safety hazard. **A draft test should read greater than .04" W.C. (inches water column) and less than .08" W.C.** As per NFPA-211 standard, the installer must

take into account all variables within the installation and install the appliance in such a manner that satisfies the draft requirements of the appliance. See Chimney Guidelines to assist you in selecting the proper venting system for your installation.

American National Standards Institute ANSI/NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances - See Draft Section: A chimney or vent shall be so designed and constructed to develop a flow sufficient to completely remove all flue and vent gases to the outside atmosphere. The venting system shall satisfy the draft requirements of the connected appliance in accordance with the manufacturer's instructions.

Chimney Guidelines:

- In well insulated and weather tight homes, it may be difficult to establish a good draft up your chimney. The poor draft is caused by a shortage of air in the house. In this situation an Outside Air Kit may need to be installed (See Negative Pressure Warning below and Outside Combustion Air in the Installation and Operation manual).

Negative Pressure Warning

These appliances are not designed to be operated in a negative pressure. In very airtight homes with large kitchen exhaust fans, furnace cold air returns, fresh air exchange systems and any other air system in close proximity to the heating appliance may create a negative pressure in the same room as the heating appliance. This can create dangerous back drafting of the appliance and chimney joints, drawing combustion by-products into the home. Be sure your home has adequate makeup air to eliminate negative pressures caused by the above-mentioned sources. Outside air connected to the appliance probably will not resolve such a problem as the appliance is not the source of negative pressure. IHP accepts no liability for damages resulting from negative pressures described here.

Ventilation Requirements - Provide adequate air for combustion. The fresh air requirements of this appliance must be met within the space where it will be installed. Ventilation is essential when using a solid-fuel-burning appliance. In well insulated and weather tight homes, it may be difficult to establish a good draft up the chimney (caused by a shortage of air in the home). The lack of air is caused by many common household appliances which exhaust air from the home (such as a furnace, heat pump, air conditioner, clothes dryer, exhaust fans, fireplaces, and other fuel burning appliances). Also, the combustion process of this appliance uses oxygen from inside the dwelling. If the available fresh air delivery in the dwelling is insufficient to support the demands of these appliances, problems can result (i.e. excessive negative pressure can develop in the dwelling which will affect the rate at which this appliance can draft thus resulting in performance problems or smoking. To correct this problem it may help to open a window (preferably on the windward side of the house) or install an outside air kit.

APPENDIX A Continued

Smoking – Causes And Troubleshooting

To reduce the likelihood of smoking when opening the door, open the combustion air control or damper before opening the door. Your appliance has been designed and tested to provide smoke free operation. Occasionally, there may be a small amount of smoking upon lighting the fire, until the chimney heats up but this should not continue. If the appliance continues to smoke it is probably for one of the following reasons:

A. Negative pressure in the house -

As the fire burns, air goes up the chimney. This air must be replaced through leakage into the house or through the outside air duct. When operating the appliance, open a nearby window temporarily to check if there is adequate replacement air supply.

B. Blowers operating (e.g.: range hood) - These blowers draw air out of the house and may actually cause a negative pressure in the house. Turn off all blowers and open a nearby window to determine if this is the cause of the problem.

C. Wetwood - Wet or tarred wood will smoulder and smoke instead of burning properly. Your dealer can help you determine if you have properly seasoned wood for burning.

D. Dirty or blocked chimney - Check to make sure the chimney is clear and clean. If dirty call a certified chimney sweep or use a properly sized chimney brush to clean.

E. Chimney not long enough - The minimum chimney height is twelve (12) feet (3.7 m) not including the appliance height. The chimney must extend at least three (3) feet (915 mm) above its point of contact with the roof and at least two (2) feet (610 mm) higher than any roof or wall within ten (10) feet (3 m) of it. When installed with offsets, the minimum chimney height is fifteen (15) feet. Additional height will increase draft and will decrease the tendency to smoke.

F. Poor chimney draft - With no fire, there should be sufficient draft to exhaust cigarette smoke introduced under the baffle or flue baffle. Chimneys installed against an outside wall without protection may generate back draft problems which will cause start-up problems. To prevent this, open a nearby window, roll up a piece of paper and light it. Then, hold it in the upper part of the firebox to warm up the chimney. Wait until the draft is sufficient, then start the fire.

G. Blower for forced air kit operating (some models) - Make sure that the blower is in the "off" position when you open the appliance door for reloading.

Locating The Appliance

The best location to install your appliance is determined by considering the location of windows, doors, and the traffic flow in the room where the appliance is located, allowing space in front of the unit for the hearth extension and the mantel, and taking into consideration the location of the hot air ducts (some models), outside air kit and chimney.

If possible, you should choose a location where the chimney will pass through the house without cutting floor or roof joists.

When selecting the location, the chimney outlet position and the direction of the wind are important factor affecting the chimney performance. To allow a maximum draft and to reduce wind turbulence, the chimney must:

- Penetrate the highest part of the roof.
- Be installed as far as possible of roof offsets, trees or any other obstructions that may cause wind turbulence and back drafts in the chimney.
- The least amount of offsets (elbows) possible. **NOTE:** A maximum of 2 offsets is allowed.

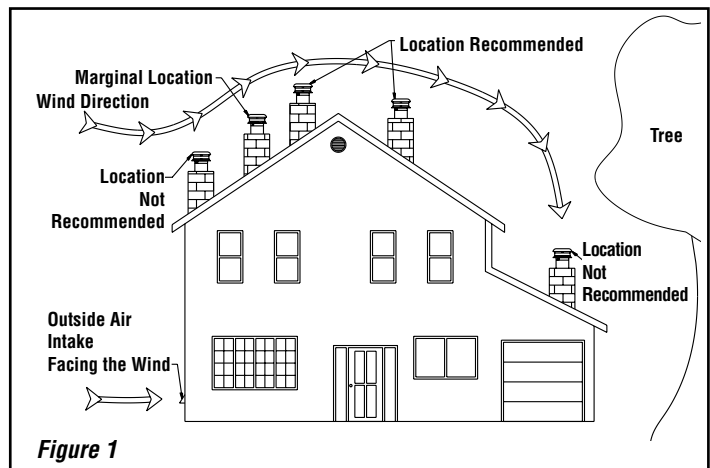


Figure 1

Prohibited Fuels

These appliances are designed to burn natural well-seasoned wood. The wood fuel should be air dried seasoned hardwoods, as compared to softwoods or to green or freshly cut hardwoods. Burning artificial logs, in some model appliances is allowed (see Installation and Operation manual); please read and follow the instructions provided by the manufacturer. **DO NOT BURN:**

- Garbage;
- Lawn clippings or yard waste;
- Materials containing rubber, including tires;
- Materials containing plastic;
- Waste petroleum products, paints or paint thinners, or asphalt products;
- Materials containing asbestos;
- Construction or demolition debris;
- Railroad ties or pressure-treated wood; woods that have been dipped in tar, pitch, pine tar, creosote, etc.
- Manure or animal remains;
- Salt water driftwood or other previously salt water saturated materials;
- Unseasoned wood;
- Christmas tree branches;
- Paper products, colored paper, cardboard, plywood, or particleboard;
- Gasoline;
- Naphtha;
- Engine Oil;
- Flammable Liquids;
- Solvents;
- Grease; or
- Charcoal or Coal

NOTE: The use of a firewood moisture meter is recommended to ensure the firewood contains less than 20% moisture.

Seasoning Guide

Softwoods - 6 months to 18 months

Hardwoods - 12 months to 24 months

Logs that are 5" diameter across or larger should be split in half, three pieces if over 8 inches, and four pieces when over a foot across. If a tree has been dead for 2 - 4 years it still needs to be cut, split, and seasoned for 6 to 24 months depending on the wood.

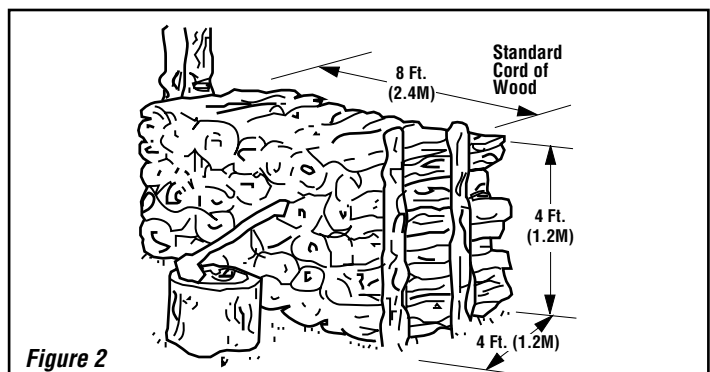


Figure 2

Innovative Hearth Products Astria® Brand Wood-Burning Fireplace 20 Year Limited Warranty

THE WARRANTY

Innovative Hearth Products ("IHP") 20 Year Limited Warranty warrants your Astria® brand wood burning fireplace ("Product") to be free from defects in materials and workmanship at the time of manufacture. The Product body, firebox and ceramic glass carry the 20 Year Limited Warranty. Ceramic glass carries the 20 Year Limited Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the 20 Year Limited Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this 20 Year Limited Warranty as described herein.

COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

EXCLUSIONS AND LIMITATIONS

This 20 Year Limited Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The Product body and firebox carry the 20 Year Limited Warranty from the date of installation. Vent components, trim components, paint and applied stains are excluded from this 20 Year Limited Warranty. The following do not carry a 20 Year Limited Warranty but are warranted as follows:

Air tubes, baffles and brick retainers – Repair or replacement for one year from the date of installation

Cast iron parts – Replacement for one year from date of installation

Electrical components – Repair or replacement for one year from the date of installation

Fireplace screens, refractory and side shields (metal or refractory) – Repair or replacement for two years from date of installation. Excludes hairline cracks.

Fuel grates – These parts are considered consumable accessories and therefore are not warranted, with the exception of defects in material or workmanship which are covered for 90 days from the date of installation

Gaskets – Replacement for one year from date of installation

Gold & nickel plating – Replacement for two years from date of installation. Excludes tarnishing

Optional glass doors – Repair or replacement for 90 days from the date of installation

Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component.

Parts not otherwise listed carry a 90 day warranty from the date of installation.

Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance. (The Product must be subject to normal use with approved fuels listed in the Operation Manual provided with the product. This includes burning such fireplace fuels as wood and natural or propane gas. Fuel products with abnormal burning characteristics, including but not limited to fuel such as driftwood, coal or plywood and wood products using a binder may burn at excessive temperatures and may cause damage to the Product or may cause it to function improperly.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

Coverage of this 20 Year Limited Warranty is conditional upon use of an adequate fuel grate on factory-built fireplaces only, when applicable.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative air pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for smoking conditions caused by inadequate chimney height, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions. Certain IHP Products are listed for use with Security Chimneys International, Ltd. or IHP chimney systems only. Use of chimney components other than that specified in the Product manual will void the Product warranty.

This 20 Year Limited Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this 20 Year Limited Warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after replacement or repair, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this 20 Year Limited Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this 20 Year Limited Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this 20 Year Limited Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this 20 Year Limited Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this 20 Year Limited Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. **IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.**

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1769 East Lawrence Street; Russellville, AL 35654 or visit our website at WWW.ASTRIA.US.COM.

Record the following important information about your fireplace:

Fireplace model number	
Fireplace serial number	
Date fireplace was Installed	
Dealer name	

Innovative Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

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1769 East Lawrence Street • Russellville, AL 35654