

# SOUTHWEST FIREBIRD MFG

## Sonoran™ Model 36ST, 42ST

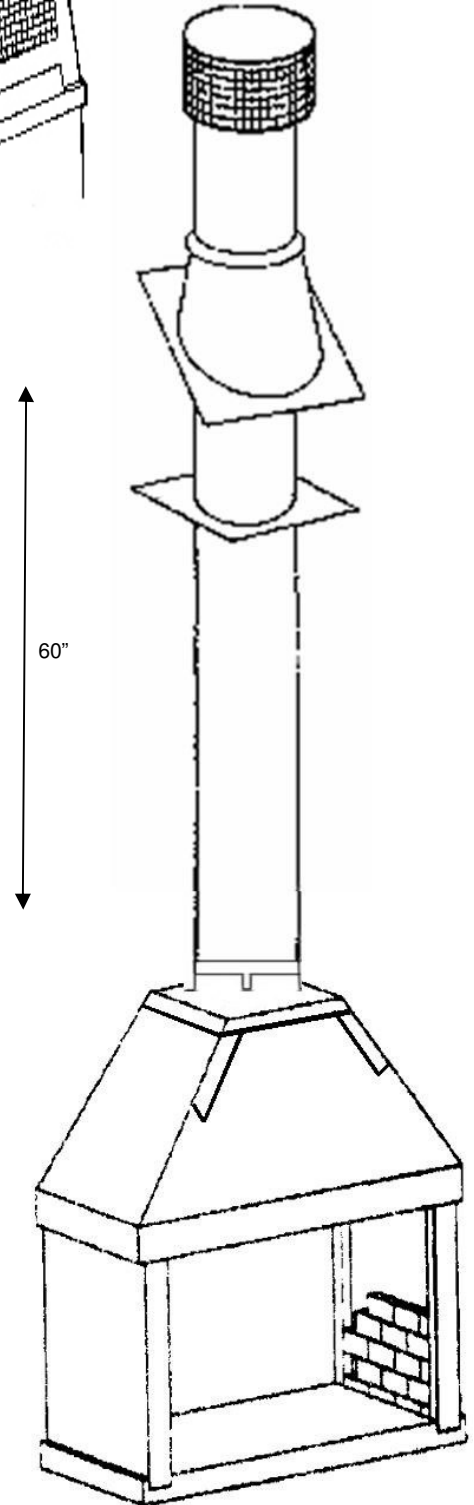
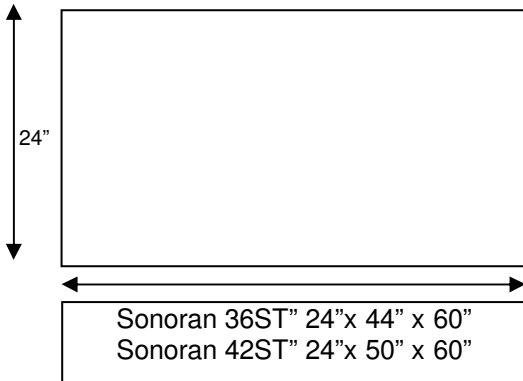
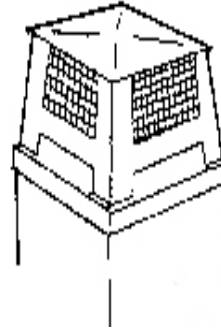
September 2008

INSTALLATION INSTRUCTIONS

**PREFABRICATED  
MODULAR MASONRY- WOOD-BURNING FIREPLACE  
SEE THROUGH FIREPLACE**  
U.S. Patent Pending

### SAVE THIS BOOK

This book is valuable. In addition to instructions for installing and maintaining this fireplace, it contains information that will enable you to obtain replacement parts or optional accessory items when needed. Keep it with your other important papers.



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

**WARNING:** THIS FIREPLACE IS INTENDED FOR USE WITH WOOD OR, IF A DECORATIVE GAS APPLIANCE IS INSTALLED, TO BURN PROPANE OR NATURAL GAS ONLY.

MANUFACTURED BY  
Southwest Firebird Manufacturing Inc.  
4646 Menaul N.E.  
Albuquerque, NM 87110



OMNI-Test Laboratories, Inc.  
LISTED FACTORY-BUILT FIREPLACE  
Test Standards UL 127  
ANSI Z211.91 Standards

## **INTRODUCTION**

Model Sonoran 36ST & 42ST is a wood-burning fireplace intended and approved for installation in either residential homes or buildings of standard construction.

This model is not for use in mobile homes.

This fireplace system requires the utilization of FMI 12", Majestic/CFM 11", Heatilator 11", or Dura Chimney II double wall snap lock flue pipe system. Optional glass doors are available for Model Sonoran 36ST & 42ST.

**One door required without if arches are not used for best performance**

**BE SURE TO CHECK WITH YOUR LOCAL BUILDING CODES FOR AREA REQUIREMENTS BEFORE INSTALLING THIS FIREPLACE.**

This model's serial number and other specific rating information may be found on the **OMNI-Test Laboratories, Inc. RATING PLATE** located inside the fireplace opening.

### **BEFORE YOU BEGIN:**

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

This Sonoran fireplace and its approved components are safe when installed according to this installation manual and operated as recommended by Southwest Firebird Manufacturing. Unless you use Southwest Firebird Manufacturing approved components tested for this fireplace, **YOU MAY CAUSE A FIRE HAZARD!**

The Southwest Firebird Manufacturing warranty will be voided by, and Southwest Firebird Manufacturing LLC disclaims any responsibility for the following actions:

- A) Modification of the fireplace or any of the components manufactured by Southwest Firebird Manufacturing Inc. unless otherwise permitted by Southwest Firebird Manufacturing.
- B) The use of a fireplace insert or any other component part not approved by Southwest Firebird Manufacturing. in combination with a Southwest Firebird Manufacturing fireplace.
- C) Installation and/or operation in a manner other than instructed in this manual.
- D) The burning of any other fuel not tested or approved by Southwest Firebird Manufacturing in this wood-burning fireplace.

NOTE: Installation and repair should be done by a qualified installer familiar with fireplaces. The fireplace and chimney system should be inspected and cleaned before use and periodically thereafter, especially during the heating season, to prevent the excessive build-up of soot and creosote and to ensure a safe operating system.

**THIS FIREPLACE IS NOT INTENDED TO BE USED AS A PRIMARY SOURCE OF HEAT**

## **SELECTING LOCATION**

PROPER INSTALLATION is the most important step in ensuring a safe and continuous operation of this fireplace.

This fireplace must be installed in accordance with this manual and in accordance with local codes. This fireplace complies with **UL 127 as a FACTORY-BUILT FIREPLACE**, and is tested and listed by **OMNI-Test Laboratories, Inc.**

### **SELECTING A LOCATION**

To determine the safest and most efficient location for your fireplace, consider the following guidelines:

1. The location must allow for all proper clearances (see *Clearances page 4*).
2. The location should be in a place where fireplace heat output will not be affected by drafts, air conditioning ducts, windows, or doors.
3. A location that avoids the cutting of joists or roof rafters makes installation easier.
4. If an outside air kit is to be installed, accessibility to outside combustion air must be considered. In some cases, this can be achieved through a vented crawl space. For more details, see section on outside air kit installation page 6.

**IN SELECTING A LOCATION, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED:**

1. DO NOT connect this fireplace to a chimney system other than recommended chimney system.
2. Install in an area providing ventilation and adequate combustion air.
3. Due to high temperatures, do not locate this fireplace in high traffic areas or near furniture and draperies.
4. Provide adequate clearances around air openings into the combustion chamber. **NEVER** obstruct the front opening of the fireplace or the flow of combustion and ventilation air.
5. Do not locate in or near an area where gasoline or other flammable liquids may be stored. The fireplace area must be kept clear and free from these combustible materials.

## Preparation for Firebox Assembly

Tools Needed: 4" plastic putty knife or metal drywall knife  
 Metal scraper or painter's tool  
 4" disposable coarse paint brush  
 Tile Sponge  
 Carpenters square  
 4' level

### **FRAMING**

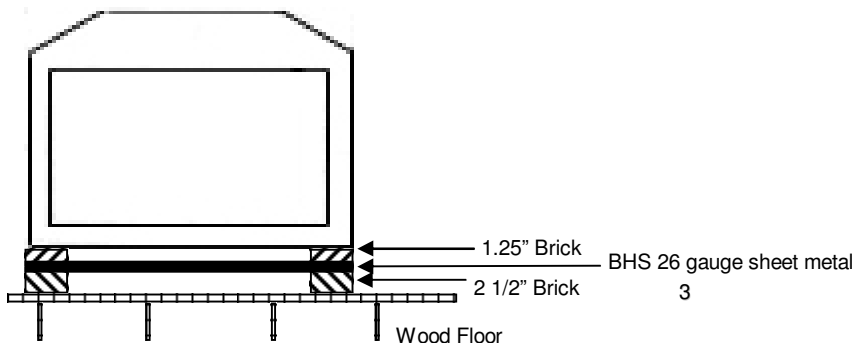
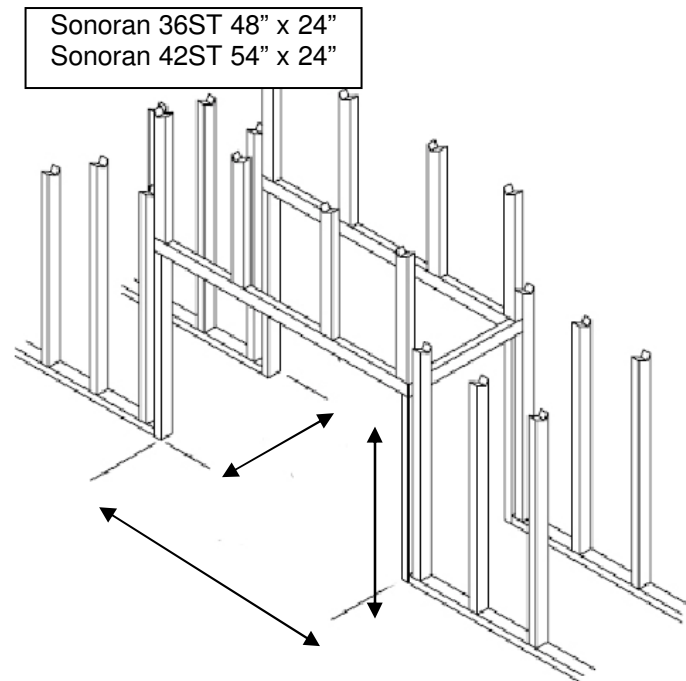
Construct framing using dimensions (shown in Figures #1) height 62" x (Use figures applicable to your particular installation).

Before securing fireplace a **metal safety strip (provided) must be placed between hearth extensions (not provided) and bottom front edge of the fireplace. This is to protect against smoldering embers.**

If the fireplace is to be installed on a raised platform, a **"Z-type" metal safety shield** (not supplied) must be fabricated to fit your required platform height (see Page 5). The shield must be made of 26 or 28ga galvanized sheet metal to prevent corrosion.

If installed on combustible flooring the bottom heat shield (part #BHS36/42/48) is required. This provides a 3.75" clearance to combustible with 1.25" airspace below the floor of the firebox.

The minimum clearance is 3.5" if not using 1.25" firebrick as detailed in this diagram. Framing Height is a minimum of 62".



FRAMING SPECIFICATION			
	Height	Width	Depth
36ST	62"	48"	24"
42ST	62"	54"	24"

## **FIREBOX**

### **A. BASE PEDESTAL PREPARATION**

If installing the fireplace on a combustible surface such as a wood floor, the optional bottom heat shield # BHS42 with either stacked firebrick or concrete blocks are required. Assemble pedestal by placing a 4"x8"x16" block at each corner. Place bottom heat shield # BHS42 on blocks. If installing on a noncombustible surface, assemble pedestal at desired height without heat shield

### **B. BOTTOM BASE INSTALLATION**

Depending on floor surface, place bottom base section "B" on blocks with heat shield, on the blocks, or on the noncombustible surface.

### **C. CENTER SECTION INSTALLATION**

Liberaly apply refractory mortar in the grooves on the sides of the base section, and the bottom of section LC and RC. Align the center sections with the base.

Apply a thin coat of mortar on the outside edge or seam to seal the two pieces together where they connect. Remove any excess refractory and masonry mortar or add mortar to fill voids.

### **D. TOP SECTION INSTALLATION**

Apply refractory mortar to the top edge of the center section. Join section TL, section TB, section TR and section TF with a liberal 3" wide by 1/4" thick strip of refractory mortar applied on the edges. Align with the back, sides and front of the center section. Apply refractory mortar liberally to the top edge of the top section and the bottom edge of the top plate. Align with the back, sides and front of the top section.

Apply a thin coat of mortar on the seams as above.

### **CLEARANCES**

MINIMUM CLEARANCES TO COMBUSTIBLES ARE:

Back	2"
Adjacent perpendicular side wall	18"
Chimney outer pipe surfaces	2"

#### Enclosure:

- 2" from side unit to framing
- 2" from bottom of header to top of unit
- 2" from fascia edge to top of unit (no combustibles below header on face)

#### Floor:

##### In front of unit:

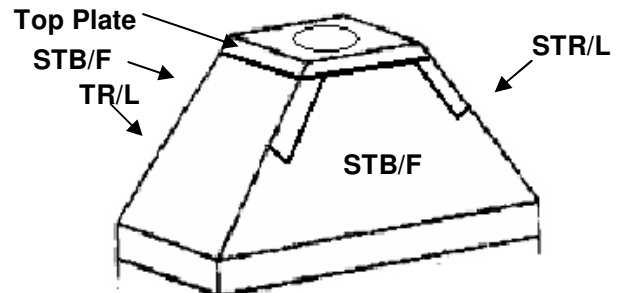
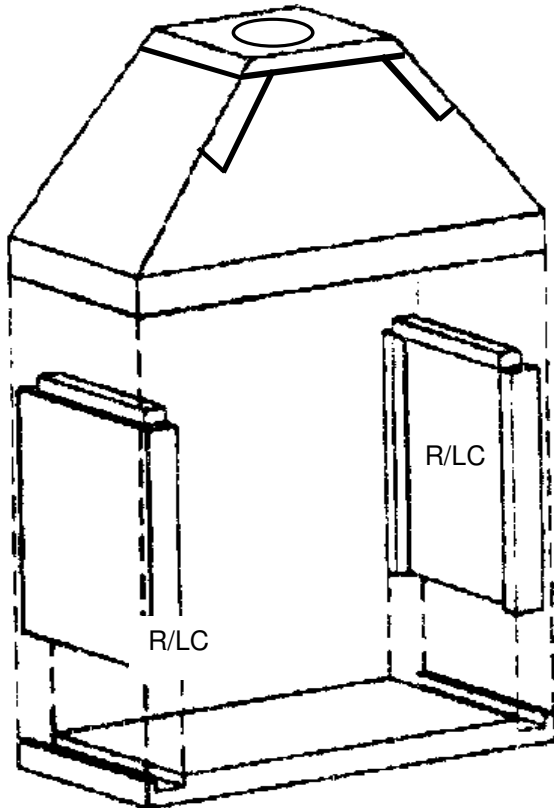
- 2" below Fireplace opening

##### Under unit:

- 1.25" from bottom of unit to heatshield BHS# 36/42ST
- 2.5" from heatshield to floor (combustibles) BHS# 36/42ST

#### In front:

- 18" to side wall (perpendicular wall)
- 62" from floor to combustible Mantle



(no combustibles below header on the face of the unit)

Door:

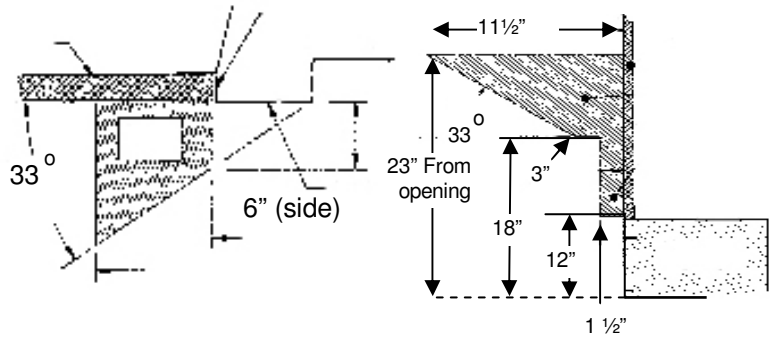
- **One door required without arch in place on other side for best performance**
- Two doors are advantageous
- If arches are in place on both sides - door not required

**WARNING!** DO NOT BLOCK REQUIRED AIR SPACES WITH INSULATION OR ANY OTHER MATERIAL. DO NOT OBSTRUCT EFFECTIVE OPENING OF FIREPLACE WITH ANY TYPE OF FACING MATERIAL.. COMBUSTIBLE MATERIAL MUST NOT BE IN CONTACT WITH THE BLACK FRONT FACE OF THE FIREPLACE.

### MANTLE CLEARANCES

Woodwork such as wood trims, mantles, and other combustible materials must be placed at least 6 inches away from the opening of the fireplace.

Combustible material above and projecting more than **11 1/2 inches** from the front face of the fireplace must be placed at least **23 inches** above the fireplace opening.  
(Ref: NFPA std. 8-2.3.3).



Mantles or any other combustible material also may come up to the side periphery of the face of the fireplace as long as the projection from the front face falls within the limits shown.

### HEARTH EXTENSIONS

A hearth extension is required to protect combustible floor surrounding fireplace. The hearth extension must project **at least 20 inches** to the front and at least **12 inches** beyond each side of the fireplace opening.

If a hearth extension is to be field constructed, it must be made of **non-combustible, inorganic material having an effective thermal conductivity "k" of .84 BTU in/Ft2 Hr.F or less at 1 inch thickness.** Thermal conductivity "k" of materials can be obtained from the manufacturer. The minimum required thickness for any material can be obtained by the following formula:

$$\frac{k \text{ factor} \times 1 \text{ inch}}{.84} = \text{thickness required}$$

Check with local supply for the "R" rating of the listed hearth extension.

If the hearth extension is to be raised, a **"Z" type metal safety strip** must be used.

**WARNING!** HEARTH EXTENSION IS TO BE INSTALLED ONLY AS DESCRIBED.

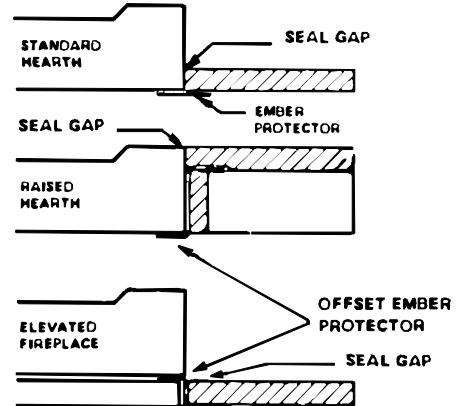
### GAS LINE INSTALLATION

**GAS LINE HOOK-UP SHOULD BE DONE BY YOUR GAS SUPPLIER OR A QUALIFIED SERVICE PERSON.**

**NOTE: BEFORE YOU PROCEED, BE SURE YOUR GAS SUPPLY IS OFF!**

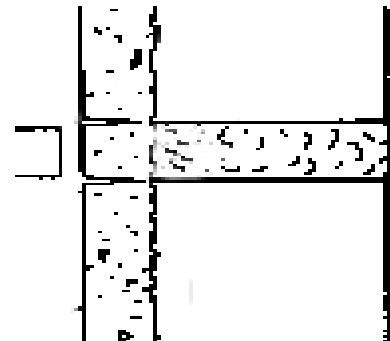
A gas line may be installed for use with a **decorative gas appliance**, available through your local distributor. Use only 1/2-inch black iron pipe and appropriate fittings. When installing a gas line, a shut-off valve designed for installation outside the fireplace is recommended.

### **HEARTH EXTENSIONS**



Installation procedure:

1. Remove the knockout indentation on the refractory (or firebrick) wall, located approximately 2 inches above the refractory hearth floor. To remove, pry knockout (inside fireplace) with a chisel, screwdriver or sharp object until knockout is released. Use 3/4" masonry drill bit to remove remaining firebrick. Remove fragmented portion of refractory.
2. Remove gas line cover plane on right or left hand side of fireplace (depending on which way incoming gas line is routed to the fireplace). Pull out insulation from gas line sleeve.
3. Run a 1/2-inch NPT black iron gas line into the fireplace 8 1/2 inches from the floor, and route into the fire chamber through the gas line sleeve. (If using a raised platform, add height of platform to specified 8 1/2 inches.) Provide sufficient gas line into fireplace chamber for fitting connection.



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

4. Re-pack insulation around gas line and into sleeve openings. Seal any gaps between gas line and refractory knockout hole with refractory cement or commercial furnace cement. Either install decorative gas appliance (per instructions included with appliance) or cap off gas line.

**CAUTION: All gas piping and connections must be tested for leaks after installation is complete.**

With gas turned ON, apply a soap and water solution to all connections and joints. If bubbles appear, leaks can be detected and corrected.

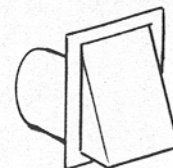
**DO NOT USE AN OPEN FLAME FOR LEAK TESTING. DO NOT OPERATE ANY APPLIANCE IF A LEAK IS DETECTED.**

The gas pipe is only intended for connection to a decorative gas appliance that 1) incorporates an automatic shut-off device, and 2) complies with the **Standard for decorative gas appliances for Installation in Vented Fireplaces, ANSI Z21.60-1 990**. The gas pipe must be installed in accordance with the **National Fuel Gas code, ANSI Z223.1-1992**.

**“CAUTION” WHEN USING THE DECORATIVE APPLIANCE, THE FIREPLACE DAMPER MUST BE SET IN THE FULLY OPEN POSITION**

### **Optional: OUTSIDE AIR KIT INSTALLATION**

If necessary, installation of an outside air kit must be done during the rough framing of the fireplace. Outside combustion air can be accessed through either an exterior wall, a vented crawl space, or through a chase enclosure.

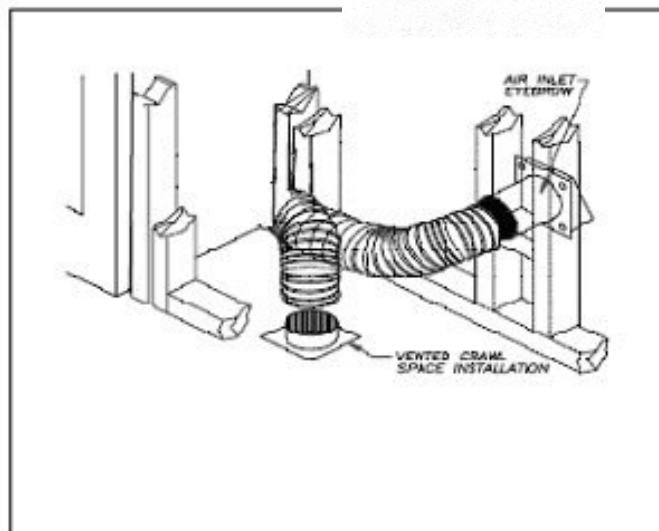


**CAUTION: AIR INLET DUCTS MUST NOT TERMINATE IN ATTIC SPACE (#OAK)**

Avoid installing outside air eyebrow in areas where inlet opening may be blocked by snow, bushes, or other obstacles. The maximum height of air inlet above platform of fireplace is 3 feet below the termination gas outlet. For operating instructions, refer to owner's manual.

### **COMBUSTIBLE AIR SYSTEM:**

**A.** An optional outside combustion duct Part #OAK vent is available from distributor. In new construction, the exterior wall vent cover can be installed at the same time as the roof flashing. The vent may be placed on either side of the wall and ran directly into the structure. Place at least 12" above the floor. Using the vent as a template draw a 4" circle, Cut out the circle and insert the wall vent. Secure 4, #8 x 1 1/2 hex head self-drilling screws. Vent must be within the fireplace



frame area. DO NOT HARD CONNECT OUTSIDE AIR TO FIREPLACE The maximum height of air inlet above platform of fireplace is 3 feet below the termination gas outlet.

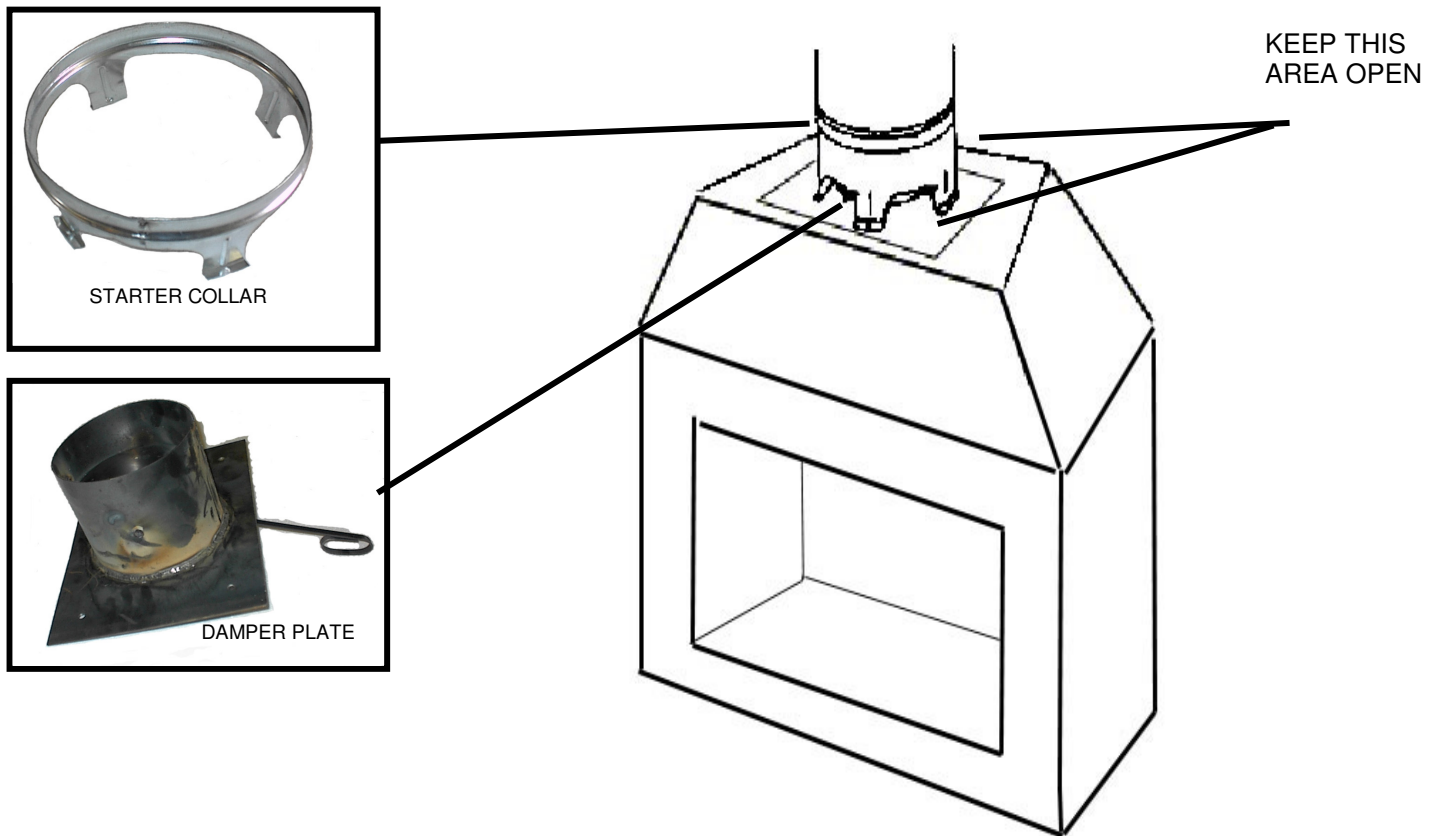
**B.** If the fireplace is not located on an exterior wall the fresh air vent must be installed on a roof flue chase connected with 4" of flex-aluminum duct (not provided). The flex needs to run from the vent and sleeve with enough duct to reach the area directly behind the firebox. **Note: Combustible air supply ducts should not terminate in attic spaces.**

### **COMBUSTIBLE AIR FOR INSIDE WALL**

If the fireplace is to be located on an interior wall where outside combustible air is not accessible through the walls, then the combustible air must be provided from the chimney roof chase through a 4" diameter aluminum duct

### **ATTACHING THE CHIMNEY**

Place the anchor damper plate\* (Part #CD42) and chimney starter collar\* over the opening on the top section of the firebox. \*These parts not necessary when installing Dura Chimney II system. You must use part (12DCA-APD) in place of (CD42). Centering over the opening, use a 1/4" masonry drill to drill directly into the firebox top through the 4 holes in the damper plate. Apply refractory mortar between anchor plate/damper and top section of firebox. Secure the plate with the 4 provided ZAMAC fasteners, 1/4"Dia. X 1 1/2" Long. Gently tap in until secure, drive pin will be flush with top of dome.



### **CHIMNEY SYSTEM INSTALLATION PROCEDURES**

Chimney must be installed per the manufacturer's installation manual and must use all necessary parts as specified by the manufacturer for use with the listed chimney system.

Use **ONLY** the following approved wood burning double wall chimney systems.

	<b>FMI - 12DM</b>	<b>HHT-SL11</b>	<b>Majestic/CFM 11"</b>	<b>Dura Chimney II</b>
Chimney Starter	20562	22073B	RP210	12DCA-APD
30 Degree Elbows	30-12DM	SL1130	11CF30-2	12DCA-E30
12" Chimney	12-12DM	SL1112	11CF1	12DCA-12
18" Chimney	18-12DM	SL1118	11CF18	12DCA-18
24" Chimney	24-12DM	-		
36" Chimney	36-12DM	SL1136	11CF3	12DCA-36
48" Chimney	48-12DM	SL1148	11CF4	12DCA-48
Firestop	FS-10DM	FS538	FS2A	12DCA-FS
Flashing	6F-10DM	RF570	8-6-12	
Storm collar	SC-12DM	-		12DCA-SC
Rain Cap/Termination	RT-12DM	TR11	RLTCF11	12DCA-VC

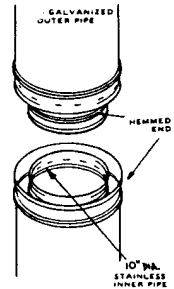
The chimney system consists of 12", 18", 24", 36", and 48 ", snap-lock, double-wall pipe segments, planned for maximum adaptability to individual site requirements. Actual lengths gained after fitting overlaps are taken into consideration (lineal gain).

## **CHIMNEY PIPE INSTALLATION**

Each double-wall chimney section consists of an outer pipe, a flue pipe, and one wire spacer. The pipe sections are unitized, and are assembled independently as the chimney is installed.

To install:

1. Install the first flue pipe section directly on the fireplace starter section, hemmed end down.
2. Install an outer pipe section over the flue pipe section, hemmed end up.
3. Press the outer pipe section down until the hem on the outer pipe section's lower end securely engages the lances on the fireplace-starting collar. The wire spacer will ensure the proper spacing between the inner and outer pipe sections.
4. Repeat steps 1 through 3 as necessary (install next inner flue pipe, then fit outer pipe/spacer assembly over flue pipe and press down).
5. Be sure that the joints between the chimney sections are fully locked. Check by pulling chimney upward after locking. The chimney should not come apart if it is properly locked. It is not necessary to add screws to keep vertical or angled chimney runs together.

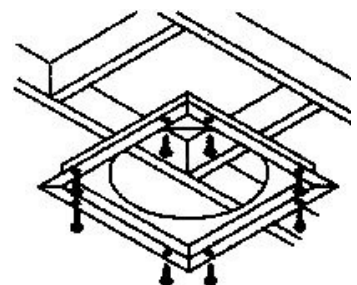


**WARNING! NEVER OBSTRUCT THE OPENINGS AROUND THE STARTING COLLAR ON TOP OF THE FIREPLACE. NEVER USE BLOWN INSULATION TO FILL THE CHIMNEY ENCLOSURE.**

## **FIRESTOP SPACERS**

Firestop spacers are required at each point where the chimney penetrates a floor or ceiling joint space. These spacers have two purposes: 1) they establish and maintain the required clearance between the outer pipe and combustible materials; 2) they serve as a shield between floors as required by most codes.

When a pipe passes through a framed opening into a living space above, a firestop must be placed on the ceiling from below.





When the pipe passes through a framed opening into an attic space, a firestop must be placed on the attic floor from above.

## SUPPORT SECTIONS

A chimney support is designed to relieve the extra weight load on the fireplace and elbows when high chimneys are installed. A chimney support is required **every 30 feet above the fireplace** after a straight chimney run, or **above a return elbow** after an offset / return change in direction. Sufficient support is achieved when the pipe passes through a ceiling firestop at each ceiling level. Please refer to the chimney manufacturer's installation instructions for any further specifications on their chimney and follow their guidelines for installing their chimney pipe.

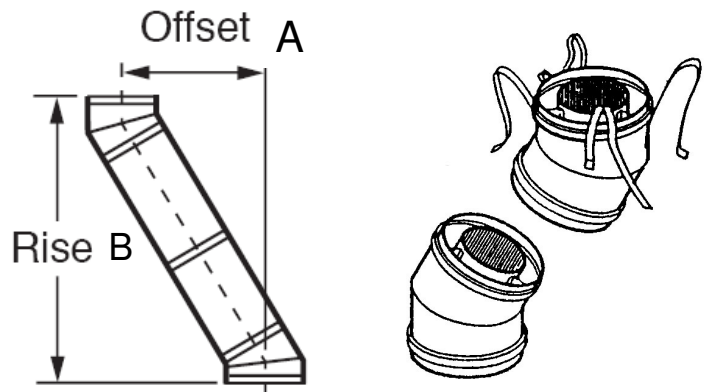
## ELBOW OFFSET INSTALLATION

Chimney weight above an offset rests on the return elbow. Use nails to secure chimney support straps to rafters or joists.

Install combinations of 48", 36", 18", and 12-inch lengths of double-wall pipe to achieve desired offset. See Rise / Offset chart below.

### RISE AND OFFSET CHART

OFFSET	RISE	CHIMNEY HEIGHTS			
		48"	36"	18"	12"
A	B	Elbows only			
4 3/8	16 3/8				
9 1/2	25 1/4				1
12 1/2	30 3/8			1	
14 3/8	34				2
17 5/8	39 1/4			1	1
21 1/2	46		1		
22 3/4	48 1/8			1	2
26 3/8	54 7/8	1			
26 3/8	60		1	1	
31 3/4	63 3/4	1			1
34 3/4	69	1		1	
38 5/8	75 5/8		2		
39 7/8	1		1	1	
43 3/4	84 1/2	1	1		
46 3/4	87 3/4		2	1	
48 7/8	93 3/8	2			



Maximum length of pipe between supports is **6 feet of angled run**. A maximum of **two 6-foot, angled, 12S-1 OWSK-run** sections per chimney system

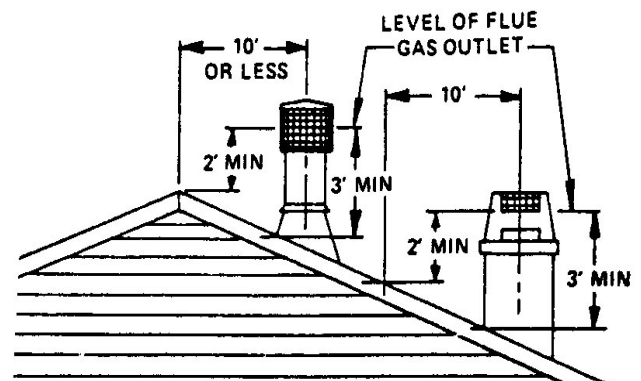
## FINISHING THE CHIMNEY SYSTEM

### 10-Foot Rule

All chimney terminations must extend a **minimum of 3 feet** above the highest point where pipe passes through the roof, and must be at least **2 feet** above the roof within a 10-foot horizontal span.

Southwest Firebird Manufacturing recommends staggering height of adjacent on-roof terminations by at least 18 inches to prevent flue gas from one stack from going down a neighboring stack.

**IMPORTANT:** If an exposed portion of chimney is higher than 4 feet about the roofline, use support wires to keep the chimney secure. The support wires may be attached to the chimney's outer pipe with screws, provided the screws do not penetrate the inner flue pipe.



## **MINIMUM CHIMNEY HEIGHT**

Minimum chimney height (measured from bottom of fireplace to flue gas outlet end of pipe) for a straight run is 14 feet:

Run with 1 elbow set:	16 feet
Run with 2 elbow sets:	22 feet

An elbow set consists of one starter elbow and one return elbow.

Uncommon circumstances such as neighboring hills, tall trees, or strong wind areas can cause down-drafts in the chimney system. In such cases, going beyond the minimum recommended height would be preferable to assist in providing a more advantageous draw. However, topographical features, tall structures, and obstructions may hinder the performance of wood burning fireplaces.

## **MAXIMUM CHIMNEY HEIGHT**

The maximum height approved for any chimney run with this fireplace system is 60 feet, as measured from the bottom of the fireplace to the flue outlet end of pipe

## **CHIMNEY MAINTENANCE**

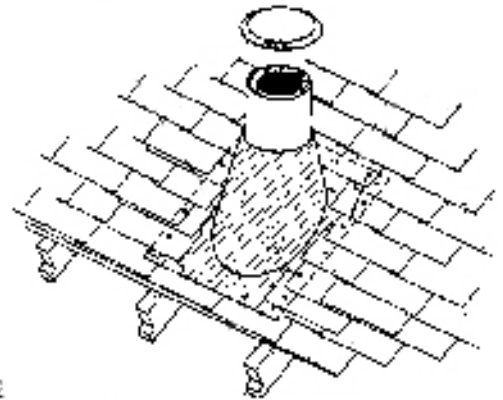
**IMPORTANT:** Have your chimney system cleaned and inspected regularly to ensure safe and efficient operation. Refer to your owner's manual for further guidelines on maintenance and operation.

## **PENETRATING THE ROOF**

**NOTE:** On a roof with a pitch (angle other than 90), the roof opening must be rectangular in order to maintain 2inch clearance.

To penetrate the roof:

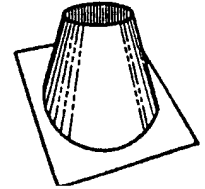
1. Determine the center point through which the pipe will penetrate the roof.
2. Determine the pitch of the roof. Pitch is the distance the roof drops over a given span, usually 12 inches. Example: a 6/12 pitch means that the roof drops 6 inches for each 12 inches measured horizontally down the roof.
3. From the center point determined in Step 1, measure and mark opening.  
**NOTE:** The steeper the pitch, the more rectangular the hole (larger the up/down dimension) must be.
4. Temporarily remove shingles around measured opening. Cut out measured roof opening.
5. Add sections of pipe until end pipe penetrates the roofline. Be sure that proper clearances are maintained. Pipe must extend at least **30 inches** above the highest point of the roof cutout. Termination and chimney must extend a minimum of **36 inches** above the highest point where it passes through the roof (see 10-Foot *Rule page 9*).



## **FLASHING INSTALLATION**

To install flashing:

1. Slide appropriate flashing over pipe until base is flat against roof. A firestop is not needed at the roof level.
2. Lay roof shingles over the top and sides of the flashing. Secure shingles to roof through flashing with roof nails. Lay shingles under the lower edge, and secure these to roof. Mastic all nail heads.



**DO NOT NAIL THROUGH FLASHING CONE.**

## **STORM COLLAR INSTALLATION**

To install storm collar:



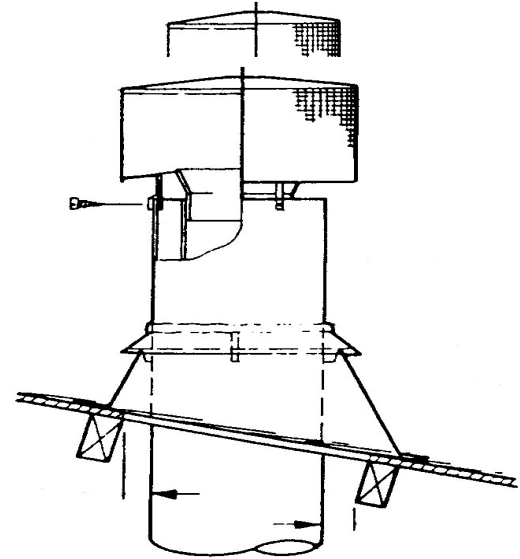
1. Wrap and lock storm collar around the outer pipe; push down on collar until the spacers on the collar separate the flashing and the pipe. This maintains the proper air gap necessary for cooling.
2. Caulk around the entire perimeter of the storm collar.

**IMPORTANT: DO NOT SEAL VENTILATION OPENINGS ON THE ROOFTOP FLASHINGS. FOLLOW INSTALLATION INSTRUCTIONS PROVIDED WITH THE TERMINATION TO BE USED.**

## **TERMINATIONS**

The fireplace chimney system must be terminated with a listed spark arrestor cap in accordance with the chimneys listed in this manual. In the event that the chimney manufacturer has multiple terminations listed, then refer to the installation instructions supplied with the termination for which termination best fits the application.

The chimney that is approved with a suggested termination can be found on page 8 of this manual. Figure to the right shows a round-top termination.



**CAUTION!** DO NOT SEAL OPENINGS ON THE ROOFTOP FLASHING. FOLLOW THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE TERMINATION BEING USED.

## **CHASE INSTALLATIONS**

Instructions for chase installations are included with the chase - style termination chosen.

**IMPORTANT: In a multiple-chase installation, be sure to provide adequate distance between the terminations to prevent smoke spillage from one termination to another. We suggest that terminations be separated by at least 30 inches, center-to-center, and stacked at a vertical height difference of 18 inches.**

## **FINISHING THE FIREPLACE**

### **FIREPLACE FACING**

Any **non-combustible** material may be used for facing (glass, tile, brick, etc.), as long as proper clearances are maintained (refer to section on clearances), and fireplace openings are not blocked or obstructed in anyway.

Use only heat-resistant, non-combustible mortar or adhesive to secure facing material to front of fireplace.

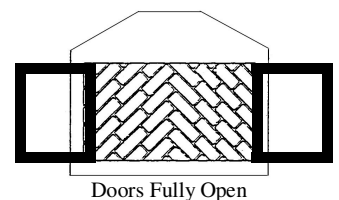
When placing facing at the upper edge of the **effective opening** of the fireplace, install an "U" shaped piece of metal extending the full width of the opening. Secure metal with sheet metal screws at a distance high enough from the edge as to not interfere with the operation of the doors. This ensures that the facing material over time should not block the opening if it were to lose cohesion.

## **OPERATING GUIDELINES AND MAINTENANCE INSTRUCTIONS**

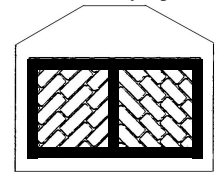
### **GLASS DOORS**

**One door required without arch in place on other side.**

“WARNING” FIREPLACES SHOULD BE OPERATED WITH DOORS FULLY OPEN OR FULLY CLOSED DEPENDING UPON THE INSTALLTION INSTRUCTIONS PROVIDED WITH THE GLASS DOOR ASSMBLY. IF DOORS ARE LEFT PARTLY OPEN GAS AND FLAMES MAY BE DRAWN OUT OF THE FIREPLACE OPENING CREATING RISK OF BOTH FIRE AND SMOKE.



Doors Fully Open

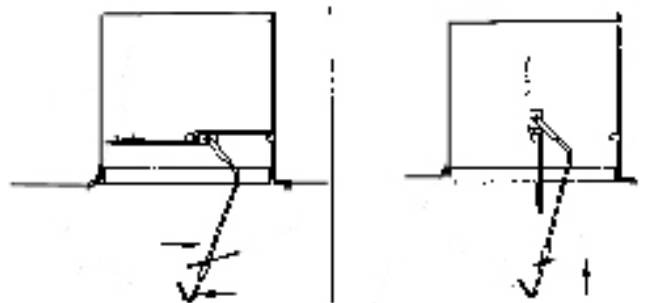


Doors Fully Closed

### **DAMPER MECHANISM**

The damper control lever is located inside the fire chamber. Be sure lever is cool before handling. To open, pull down; to close, push up. When lighting a fire, the damper must be OPEN to prevent smoke spillage into the room.

When the fireplace is not in use you can close the damper to prevent down-drafts from entering the room.



### **GRATE**

The grate is designed to provide maximum solid-fuel capacity. DO NOT ATTEMPT TO DEFEAT ITS PURPOSE; doing so may cause smoke spillage AND CREATE A FIRE HAZARD.

DO NOT overload the grate or obstruct the required air space beneath it. Always keep ashes from building up under the grate.

**WARNING!** RISK OF FIRE! REPLACE GRATE WITH SOUTHWEST FIREBIRD MFG. MODEL SONORAN 36ST, 42ST GRATE ONLY!

**Never obstruct the flow of combustion and ventilation air. Keep the front of the fireplace clear of all obstacles and combustible materials.**

**WARNING! CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES AND TO STAY AWAY FROM THESE TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE FIREPLACE. FOR FURTHER OPERATING**

**GUIDELINES, INSTRUCTIONS, AND WARRANTY INFORMATION, REFER TO YOUR OWNER'S MANUAL OR CONTACT YOUR AUTHORIZED DEALER.**

## **REPLACEMENT AND ACCESSORY PARTS**

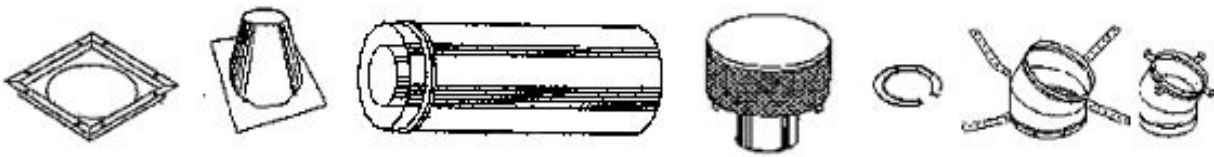
### **BEFORE ORDERING**

- Please have your fireplace's model name or number and the part number of the item(s) you are ordering ready.
- Refer to the parts list and diagrams when ordering replacement parts.
- Repair parts or accessory items may be bought from your distributor/dealer.
- All product specifications are subject to change without notice.

**NOTE: USE OF ANY OTHER GLASS DOOR ASSEMBLY NOT TESTED WITH THIS FIREPLACE MAY CONSTITUTE A FIRE HAZARD AND WILL VOID THE SOUTHWEST FIREBIRD MANUFACTURING WARRANTY.**

### **CHIMNEY PARTS FROM, FMI, Majestic/CFM, Heatilator, and Dura Chimney II**

Firestop Spacer   Flashing   Chimney 12",18",24",36",48   Rain Cap   Storm Collar   30 Degree offset



### **FIREPLACE ACCESSORIES**

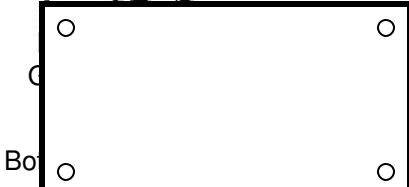
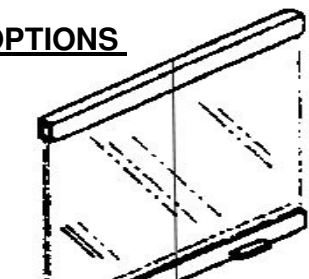
Damper Plate #DP12"

Chimney Starter

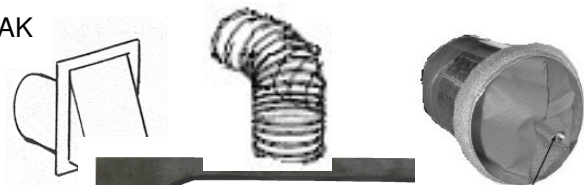
Aluminum Flex and Cape Damper, ( part of #OAK)  
Fireplace Grate #G36ST,42ST



### **OPTIONS**



Outside air #OAK

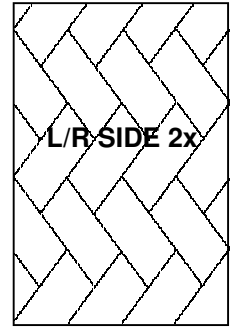
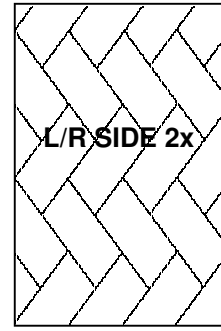
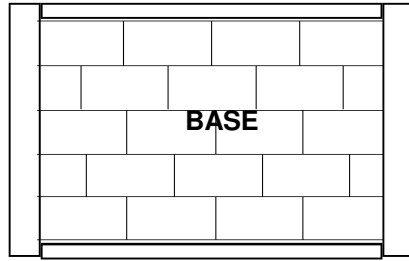


Arched Front  
AST36/42

Bo

ST42

**FIREBOX**



- STB Base
- STL/R Side 2x
- ST R/L Top Left or Right 2x
- STF/B Top Front or Back 2x
- STTP Top Plate

