



INSTALLATION INSTRUCTIONS

CUSTOM SERIES

38" & 43" Wood Burning Fireplaces
P/N 700,021M REV. A 12/2003

MODELS

BCF-3885
BCF-4385

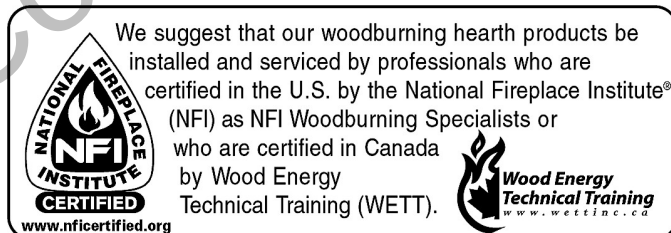
BRF-3875
BRF-4375

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.**

**RETAIN THESE INSTRUCTIONS
FOR FUTURE REFERENCE**



U.L. Report No. MH8988

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IMPORTANT: PLEASE READ AND UNDERSTAND THESE RULES TO FOLLOW FOR SAFETY.

1. Before starting your fireplace installation, read these installation instructions carefully to be sure you understand them completely and in entirety. Failure to follow them could cause a fireplace malfunction resulting in serious injury and/or property damage.

2. Always check your local building codes. The installation must comply with all local, regional, state and national codes and regulations.

3. The 38" models of these fireplaces must be installed with Security Chimneys FTF8 (8" inside diameter) Chimney System. The 43" models with either Security Chimneys FTF8 or FTF10 (10" inside diameter) Chimney System. These systems are intended for use in any application where a traditional masonry type fireplace would apply. The chimney system must always vent to the outside of the building.

4. To ensure a safe fireplace system and to prevent the build-up of soot and creosote, inspect and clean the fireplace and chimney prior to use and periodically during the heating season.

5. Use solid fuel only. DO NOT use artificial wax based logs, chemical chimney cleaners or flame colorants in your fireplace.

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.

6. DO NOT use charcoal or coal under any circumstances.

7. 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 any flammable liquids a safe distance from the fireplace.

8. NEVER leave children unattended when there is a fire burning in the fireplace.

9. Always keep flue damper open when heat is present in the fireplace.

10. Before servicing, allow the fireplace to cool. Always shut off any electricity or gas to the fireplace while working on it. This will prevent any possible electrical shock or burns.

11. This fireplace is not intended to heat an entire home or be used as a primary heat source. It is designed to ensure homeowner comfort by providing supplemental heat to the room.

12. Always ensure an adequate supply of replacement combustion air from the outside of the house is accessible to the fire to support normal combustion. Fireplaces consume large volumes of air during the normal combustion process. In the event the home is tightly sealed with modern energy efficient features, the optional combustion air kit may not provide all the air required to support combustion.

The manufacturer is not responsible for any smoking or related problems that may result from the lack of adequate combustion air. It is the responsibility of the builder/contractor to ensure that adequate combustion air has been provided for the fireplace.

13. DO NOT use a fireplace insert or any other products not specified herein by the manufacturer for use with this fireplace. All gas log sets must be operated with the damper clamped open, including unlisted "vent free" log sets. Listed "vent-free" log sets may be operated with the damper closed.

14. "Smoke free" operation is not warranted 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.

15. Never, under any circumstances, install a fireplace, chimney component or any accessories, that has visible or suspected physical damage as a result of handling or transportation. These items should be inspected by your distributor or qualified factory representative to ensure safe condition. When in doubt, consult your distributor.

16. For additional safety considerations and complete operating instructions, refer to the Care and Operation Manual provided with the fireplace.

TOOLS AND BUILDING SUPPLIES NORMALLY REQUIRED

Tools should include:

- Phillips screwdriver
- Hammer
- Saw and/or sabersaw
- Level
- Measuring tape
- Plumb line
- Electric drill and bits
- Pliers
- Square

Building supplies:

- Framing materials
- Wall finishing materials
- Caulking materials (noncombustible)
- Fireplace surround and hearth extension materials (noncombustible)

PRECAUTIONS

Note: These fireplace systems are not difficult to install. However, in the interest of safety, it is recommended that the installer be a qualified or certified "tradesman" familiar with commonly accepted fireplace installation and safety techniques as well as prevailing local codes.

The most important areas of concern dealing with the installation of factory-built fireplaces are clearances to combustible materials, proper assembly of component parts, height of the chimney system, the proper use of accessories supplied by the manufacturer and the techniques employed in using finishing materials applied to the wall surrounding the fireplace, hearth extensions and wall shields. Each of these topics will be covered in thorough detail throughout this manual. Please give each your special attention as you progress with your installation.

INTRODUCTION

General Information

The BCF Series are wood-burning fireplaces featuring a self-contained heat-circulating system. A standard bar grate is also included to properly position the fire. Outside combustion air kits, decorative glass doors, forced air kits and the fan adapter kit are available as optional equipment.

The BRF Series are conventional radiant-heat fireplaces with a standard bar grate, optional outside combustion air kits and optional decorative glass doors.

Note: Illustrations shown reflect "typical" installations with nominal dimensions and are for design and framing reference only. Actual installations may vary due to individual design preferences. However, always maintain minimum clearances to combustible materials and do not violate any specific installation requirements.

The BRF and BCF Series Fireplaces have been tested and listed by Underwriters Laboratories, Inc. (File No. MH8988-1/91) to the U.L. 127 standard for U.S. installations. These units are intended for installation in residential homes and other buildings of conventional construction including commercial, not in mobile homes.

These fireplace systems are designed for installation in accordance with the National Fire Protection Standard for chimneys, fireplaces and solid fuel burning appliances; NFPA 211 and in accordance with codes such as the BOCA Basic/National Codes, the Standard Mechanical Code and the Uniform Building Codes.

WARNING: FAILURE TO USE MANUFACTURE PROVIDED PARTS, VARIATIONS IN TECHNIQUES AND CONSTRUCTION MATERIALS OR PRACTICES OTHER THAN THOSE DESCRIBED IN THIS MANUAL MAY CREATE A FIRE HAZARD AND VOID THE LIMITED WARRANTY.

The BCF and BRF systems consist of six basic "sub-systems":

1. The Fireplace
2. The Chimney and Termination
3. The Optional Glass Doors
4. The Optional Forced Air Kits (BCF Series only)
5. The Optional Combustion Air Kits
6. The Optional Collar Duct Kits

CLEARANCES AND HEIGHT REQUIREMENTS

The fireplace may be placed on or near normal construction materials*. The combustion air kit, firestop spacer and roof flashing (not chase flashings) may be placed directly on or against normal construction materials.* The chimney requires a minimum 2" air space to combustibles (See **Note). A combustible mantle may be installed 12" above the opening of the fireplace as per NFPA 211, Section 7-2.3.3.

The fireplace and chimney system must be enclosed when installed in or passing through a living area where combustibles or people may come in contact with it. This is important to prevent possible personal injury or fire hazard.

For questions, please call your distributor or the manufacturer. Special restrictions apply to the front and facing of the fireplace and nearby walls (See pages 16, 17 and 18).

CHIMNEY SYSTEM

These fireplaces are designed and code listed for use with Security Chimneys FTF8 or FTF10 chimney System only. Always use Security Chimneys FTF8 or FTF10 chimney components with these fireplaces. Do not modify or alter these components as this may cause a potential serious hazard and void the Warranty.

*Construction Materials:

- framing materials
- particle board
- millboard
- plywood
- paneling
- flooring
- dry wall
- etc.

****Note:** 1" clearance when installing FTF8 on 38" models or FTF10 on 43" models.

TYPICAL INSTALLATION

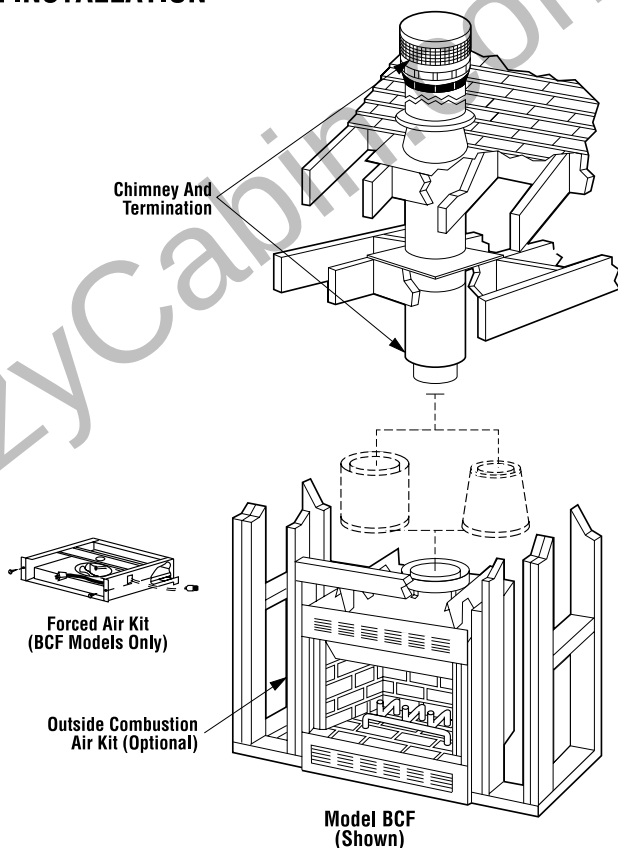


Figure 1

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

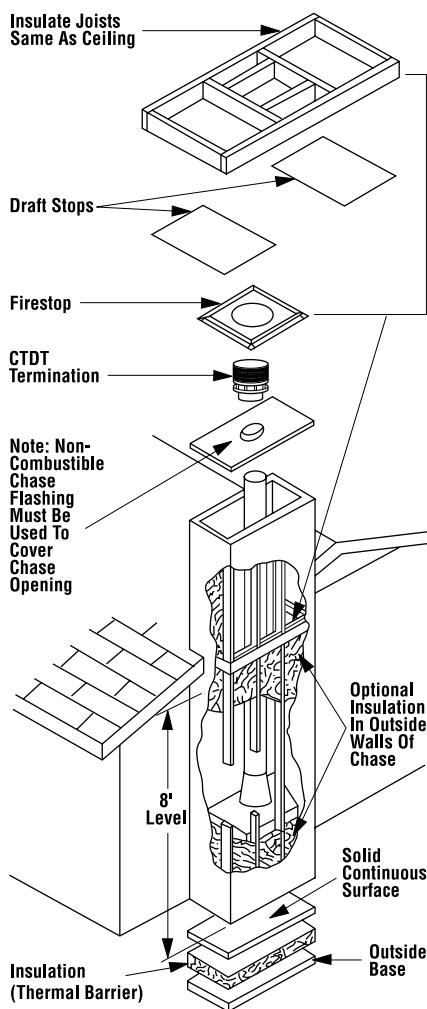


Figure 2

WARNING: IF INSULATION IS USED, THE FIREPLACE MUST NOT BE PLACED DIRECTLY AGAINST IT. INSULATION OR VAPOR BARRIERS, IF USED, MUST FIRST BE COVERED WITH GYPSUM BOARD, PLYWOOD, PARTICLE BOARD OR OTHER MATERIAL TO ASSURE INSULATION AND VAPOR BARRIERS REMAIN IN PLACE.

WARNING: DO NOT PACK OR FILL REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIAL. NO MATERIAL IS ALLOWED IN THESE AREAS.

Note: Do not insulate the chase cavity with blown or fill type insulation materials.

Note: Local codes may not require firestopping at the ceiling levels for outside chase installations. However, it is recommended for safety and the reduction of heat loss.

Chimney Height

The total height of your completed fireplace system from the surface the fireplace rests on to the chimney top must not exceed 80' and must also meet minimum height requirements. Refer to the minimum system height chart.

Minimum System Height

Opening Width	38"	43"	43"
Chimney Type	FTF8	FTF8	FTF10
Vertical Installation	12' 0"	16' 8"	15' 0"
One Offset	12' 0"	16' 8"	15' 0"
Two Offsets	25' 0"	25' 0"	25' 0"

Chase Enclosure

A chase is a vertical box-like structure constructed to surround the fireplace and chimney. Refer to Figure 2 for a typical chase configuration. As with all chimney installations, avoid overhead obstructions such as trees, power lines, etc. A chase should be constructed and insulated just like any outside wall. In a cold climate, we recommend the base of the chase should also be insulated between the solid continuous floor beneath the fireplace and the chase bottom. Chase insulation in a cold climate installation is not required for safety.

ASSEMBLY OUTLINE Before You Start

Check your inventory list to be sure you have all the necessary parts supplied in good usable condition. Check also for any concealed damage.

Check the operation of the damper. The damper is controlled through the use of a control lever located within the firebox opening at the top center just behind the firebox lintel (Figure 3). The control lever snaps into place at the extreme range of motion, up and back in the closed position. Firm pressure is required to lock the damper closed. When pulled forward and down, the damper is open.

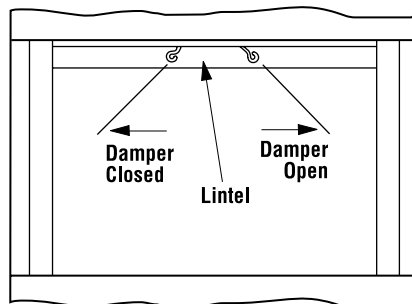


Figure 3

LOCATION OF FIREPLACE

Carefully select the proper location for heat circulation, aesthetics, chimney obstructions and clearance to side wall(s). With proper pre-planning, a slight adjustment of a few inches can save considerable time and expense later during construction and assembly.

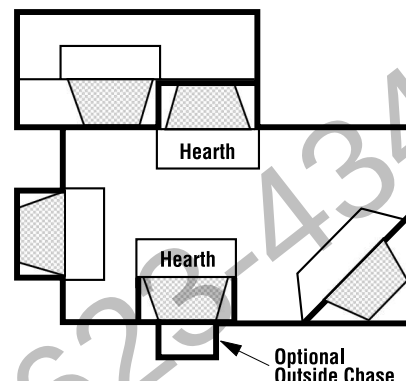


Figure 4

Carefully consider the position of the fireplace opening with respect to the location of adjacent or nearby stairwells, bath or kitchen exhaust fans and/or return air registers for forced air furnaces/air conditioners that could cause a smoking fireplace condition if the house is tightly insulated.

When locating the fireplace, consideration must be given to combustibles and final finishing. See Figure 5 and confine the final location of combustible finish materials to the "Safe Zone".

If there is a continuous perpendicular side wall closer than 15" from the nearest side of any 38" fireplace opening or 18" from any 43" model, it must be protected with a 40" x 40" x 1/2" wall shield constructed of millboard or a durable non-combustible material with equal or greater insulating value than $k = 84 \text{ BTU/HR-FT}^2 \text{ } ^\circ\text{F/IN}$ (see page 16). A continuous perpendicular side wall cannot be closer than 8" from the fireplace opening under any circumstances, even if protected.

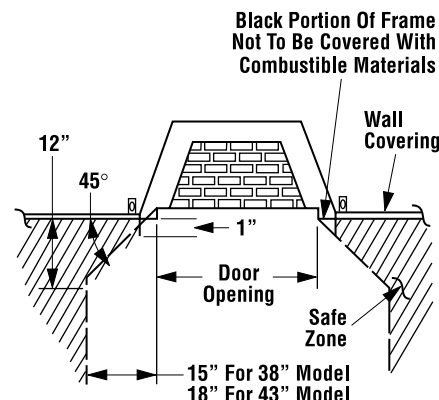


Figure 5

DO NOT permanently place furniture or other items such as decorative pillows within 60" of the fireplace front face.

ASSEMBLY STEPS

Note: The following steps represent the normal sequence of installation. Each installation is unique, however, and might require a different sequence.

1. Position firebox prior to framing or into prepared framing.
2. Install the chimney system.
3. Field wire main power supply to BCF models for fan kit and install CF-ADK adapter kit. (Electrical connections should only be performed by an experienced, licensed/certified tradesman.)
4. Install optional outside combustion air kit.
5. Plumb gas line if a decorative gas appliance will be used. (Gas connections should only be performed by an experienced, licensed/certified tradesman.)
6. Complete the installation, finish wall material, surround and hearth extension to your individual taste.
7. Assemble and attach optional glass door assembly.

Study the three dimensional illustration (Figure 1) to get a general idea of each element of your fireplace system.

PRE-INSTALLATION NOTES

The fireplace may be installed directly on a combustible floor or raised on a platform of an appropriate height. Do not place fireplace on carpeting, vinyl or other soft floor coverings. It may, however, be placed on flat wood, plywood, particle board or other hard surfaces. Be sure fireplace rests on a solid continuous floor or platform with appropriate framing for support and so that no cold air can enter the room from under the fireplace.

The fireplace may be positioned and then the framing built around it, or the framing may be constructed and the fireplace positioned into the opening.

Usually, no special floor support is needed for the fireplace, however, to be certain:

1. Estimate the total weight of the fireplace system including chimney and surround materials such as brick, stone, etc., to be installed. Shipping weights for the fireplace may be found on page 18.

2. Measure the square footage of the floor space to be occupied by the system, surrounds and hearth extensions.

3. Note the floor construction, i.e. 2 x 6's, 2 x 8's or 2 x 10's, single or double joists, type and thickness of floor boards.

4. Use this information and consult your local building code to determine if you need additional support.

CAUTION: DO NOT BLOCK THE HEAT-CIRCULATING AIR INLET AND OUTLET PORTS ON CIRCULATING MODELS. DOING SO MAY RESULT IN A POTENTIAL FIRE HAZARD.

If you plan to raise the fireplace and hearth extension, build the platform assembly then position fireplace and hearth extension on top. Secure the platform to the floor to prevent possible shifting.

INSTALLING THE FIREPLACE

Step 1. Slide the fireplace into prepared framing or position fireplace in its final position and frame later.

The fireplace may not be recessed into a combustible floor. Maintain the floor to hearth clearance established by the fireplace lower front face.

Step 2. Insert the provided metal safety strips, beneath the fireplace as illustrated (Figures 6, 7 and 8). The safety strips should overlap 1/2" for continual coverage of the floor.

Note: Safety strips are not required when fireplace rests on a noncombustible surface.

To Install

Step 1. Slide the fireplace into prepared framing or position fireplace in its final position and frame later.

Step 2. Insert the metal safety strips, packaged with the fireplace, beneath the fireplace as illustrated (Figures 6 and 7). The safety strips should overlap 1" for continual coverage of the floor.

Note: Safety strips are not required when fireplace rests on a non-combustible surface.

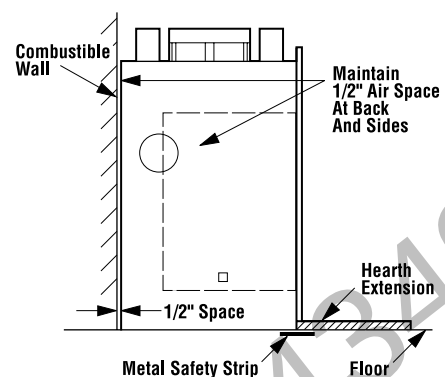


Figure 6

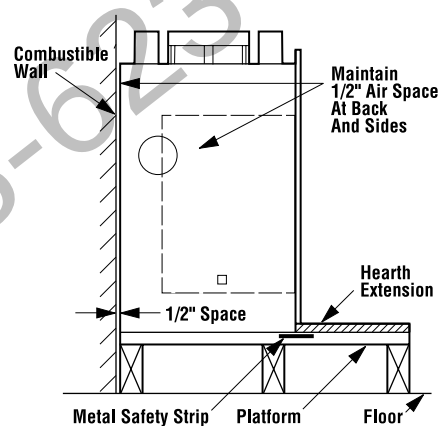


Figure 7

Note: Install the hearth extension only as illustrated.

The safety strips should extend from front and sides of the fireplace 2". In the event a wooden support is used to elevate the fireplace above the floor, a "Z" type safety strip should be fabricated and used to protect the front surface of the wood support as well as the floor beneath the hearth extension (Figures 8 and 9). The safety strips should be tacked down to prevent possible movement.

Note: The "Z" type safety strip is not supplied by Superior.

Step 3. Refer to fireplace drawings and specifications on pages 6 and 7 for framing dimensions and details. Framing header may be positioned directly on the fireplace top spacers.

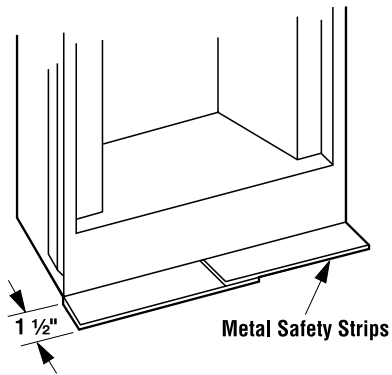


Figure 8

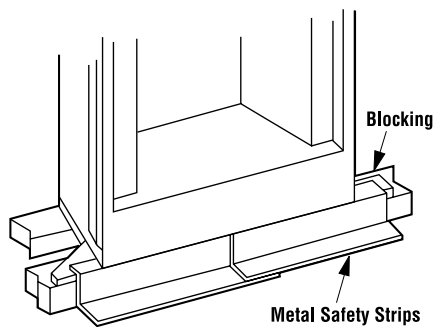


Figure 9

IMPORTANT: UNDER NO CIRCUMSTANCES CAN THE FIREPLACE TOP SPACERS BE REMOVED OR MODIFIED, NOR MAY YOU NOTCH THE HEADER TO FIT AROUND OR BE INSTALLED LOWER THAN THE SPACERS. THE HEADER MAY BE IN DIRECT CONTACT WITH THE TOP SPACERS BUT MAY NOT BE SUPPORTED BY THEM.

Step 4. Fireplace may be anchored to floor. Bend down four (4) anchor tabs located at the base of the fireplace and secure to the floor by nailing with 8d nails (Figure 10).

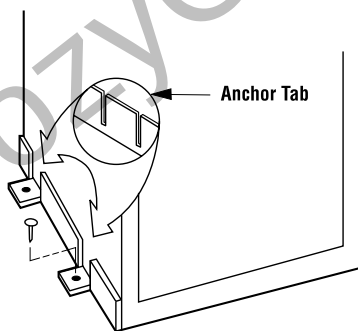
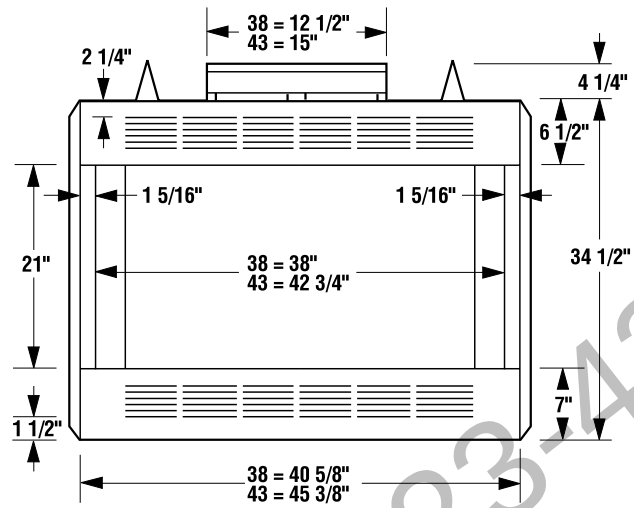


Figure 10

FIREPLACE SPECIFICATIONS



BCF Model Shown

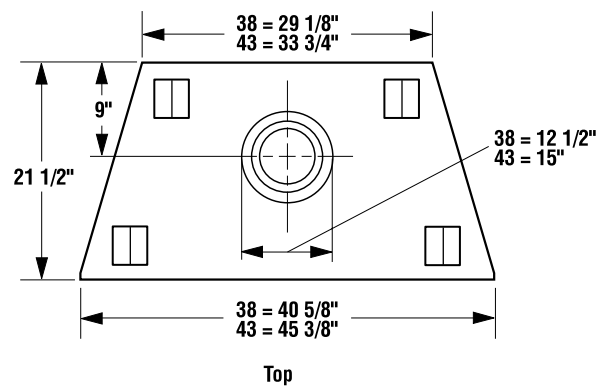
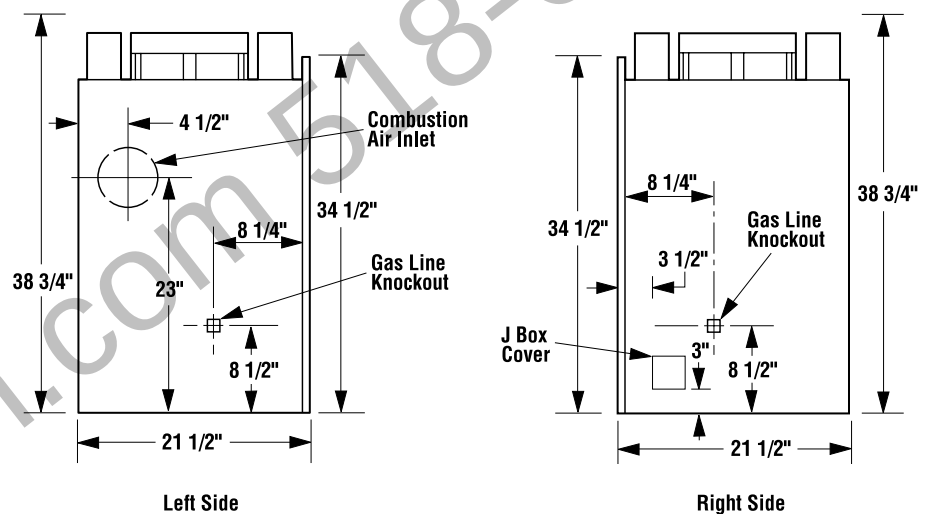


Figure 11

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

FRAMING DIMENSIONS

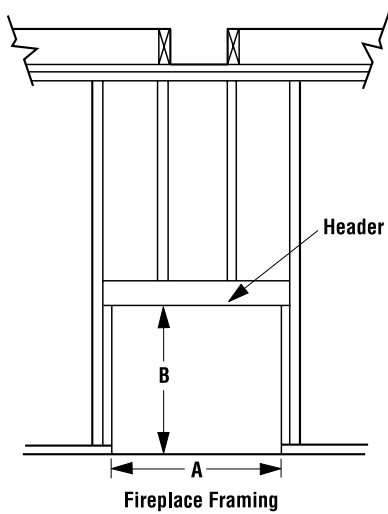


Figure 12

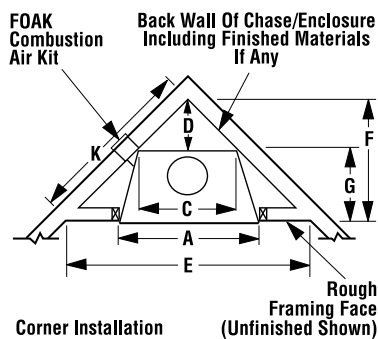


Figure 13

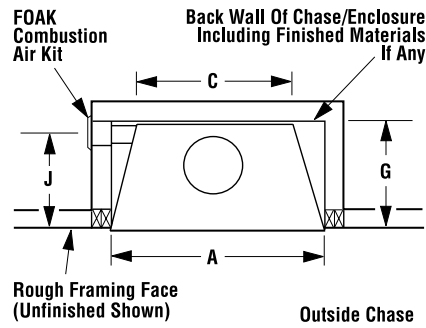


Figure 14

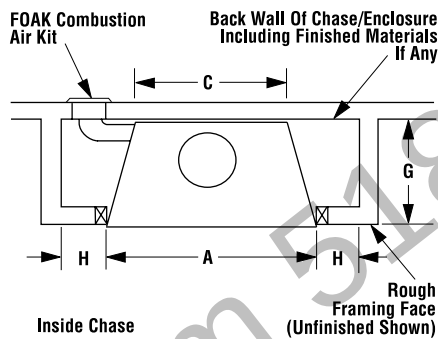


Figure 15

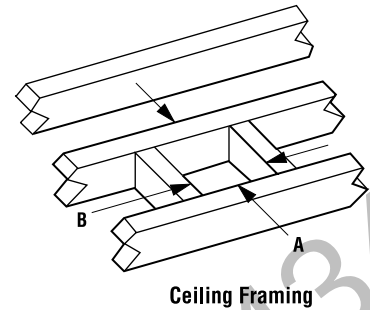


Figure 16

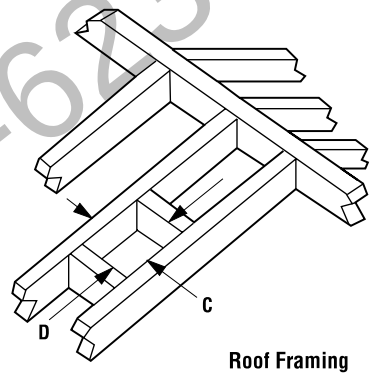


Figure 17

Framing Dimensions for BRF and BCF Series

Ceiling Framing Dimensions

Flue Type	A	B
FTF8 Vertical	14 1/2"	14 1/2"
FTF8 Offset 30°	14 1/2"	25"
FTF8 Vertical at 2"	16 1/2"	16 1/2"
FTF8 Offset 30° at 2"	16 1/2"	27"
FTF10 Vertical	17"	17"
FTF10 Offset 30°	17"	26"

Opening	38"	43"
A	40 3/4"	45 1/2"
B	39"	39"
C	29"	33 3/4"
D	14 1/2"	16 7/8"
E	71 3/4"	76 1/2"
F	35 7/8"	38 1/4"
G	21 3/8"	21 3/8"
H	8"	8"
J	17"	17"
K	50 3/4"	54"

Note: All framing dimensions calculated for 1/2" dry wall at the fireplace face. If sheathing the chase or finishing with other thickness materials, calculations will need to be made.

Roof Framing Dimensions

Pitch	FTF8 at 1"		FTF8 at 2"	
	C	D*	C	D*
0/12	14 1/2"	14 1/2"	16 1/2"	16 1/2"
6/12	14 1/2"	17"	16 1/2"	19"
12/12	14 1/2"	21 1/2"	16 1/2"	23 1/2"
Pitch	TF10 at 1"			
	C	D*		
0/12	17"	17"		
6/12	17"	19"		
12/12	17"	24"		

*Perpendicular to Roof Ridge

Step 5. Fireplace should be secured to side framing members using the full length nailing tabs at the top and bottom of the fireplace front face. Use 8d nails (Figure 18).

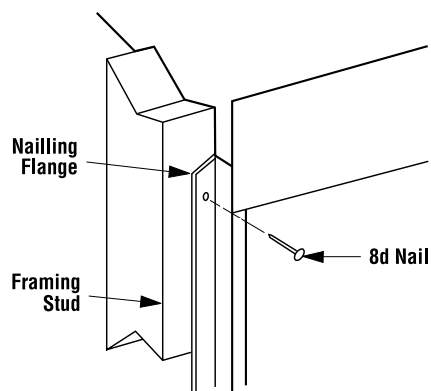


Figure 18

Note: The nailing tabs and the area directly behind the nailing tabs are exempt from the clearances described on page 5. Maintain at least 1/2" clearance from the firebox wrapper to the framing at the closest point of contact, directly adjacent to the flange.

INSTALLING THE CHIMNEY SYSTEM

Step 1. Before continuing, check the operation of the damper, as described on page 4, (refer to Figure 3).

Step 2. Using standard construction framing techniques, construct opening for chimney route up through the ceiling(s) and roof or through an outside chase.

Framing must maintain adequate minimum air space clearance at all times.

CAUTION: ALLOW MINIMUM 2" CHIMNEY AIR SPACE TO COMBUSTIBLE FRAMING MEMBERS THROUGHOUT VERTICAL OR OFFSET CHIMNEY INSTALLATION (SEE **NOTE).

A minimum 2" air space must be reserved for all combustible materials extending for any continuous length surrounding the chimney (See **Note).

****Note:** 1" clearance when installing FTF8 on 38" models or FTF10 on 43" models.

Reference Figures 16 and 17 and charts Framing Dimensions for Ceiling and Roof, which specify minimum ceiling and roof dimensions.

In new construction, to determine chimney center line, use plumb line from roof or ceiling above fireplace to center of flue collar on fireplace.

For remodeling, plumb to center of flue collar from ceiling above, drive nail through ceiling from below to mark position, then mark and cut to passage from above ceiling (around nail) (Figure 19). Then plumb from ceiling or roof level directly above hole which has just been completed.

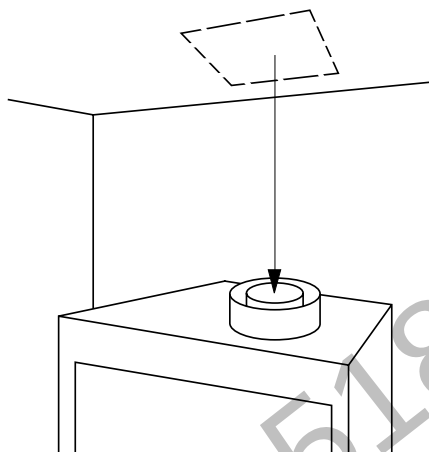


Figure 19

Note: If Desired the optional collar duct kit, Model FTF8-CDK or FTF10-CDK, should be installed after the chimney has been attached to the flue collar.

Step 3. Position appropriate firestop spacer at ceiling and nail temporarily with two (2) 8d nails. Use flat firestop spacer, Model F8FS-2, or F8FS30-2, if chimney penetrates ceiling vertically (See *Note). If chimney penetrates ceiling at 30° angle (offset chimney), use 30° firestop spacer, Model FS30, F8FS30 or F10FS30 (See *Note). Use one nail on opposite sides to hold firestop spacer in position. Nail permanently, using at least two (2) more 8d nails, after chimney sections have been assembled through the firestop spacer and after any necessary adjustments have been made. Firestop spacer must be secured by at least four (4) 8d nails when completely installed.

***Note:** Use Models F8FS-2 and F8FS30-2 to maintain 2" clearance when installing FTF8 chimney on 43" fireplaces.

Note: If there is a room above ceiling level, firestop spacer must be installed on the bottom side of the ceiling. If an attic is above ceiling level, firestop spacer must be installed on top side of ceiling joist (Figures 20 and 21).

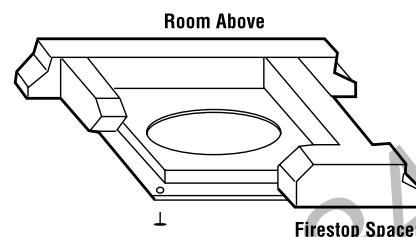


Figure 20

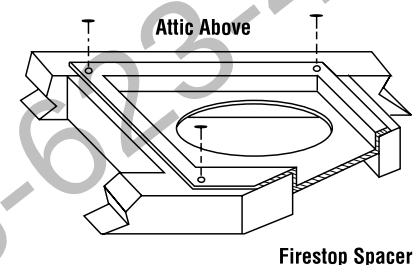


Figure 21

Step 4. Note: Chimney sections are constructed with a unique locking tab design, which ensures an immediate, tight assembly between sections. Plan your chimney requirements carefully before assembly as chimney is difficult to disassemble after installation. If disassembled, the tabs might become damaged. Be certain tabs are properly formed to ensure locking tabs engage properly.

Security Chimneys FTF8 and FTF10 chimney systems are two piece chimneys, which snap together from the fireplace up. Start with the inner flue section with the lanced end up, snap lock it in to the matching collar on top of the fireplace. At all subsequent joints, the upper flue section fits into the preceding flue section. Each piece snaps together by means of locking tabs (9 locking tabs per joint). Check each piece by pulling up slightly from the top to ensure proper engagement before installing the next section. If the flue has been installed correctly, it will not separate when you test it. Also, the inner flue joint where each section is joined should be tight and flat without gaps (see Figure 22).

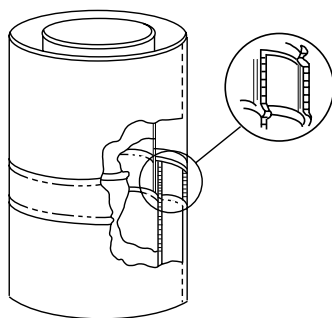


Figure 22

Outer pipe section installs in just the opposite way; the lanced end goes down and each new section goes OVER the outside of the previous section installed (Figure 23).

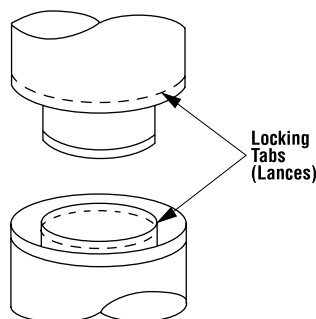


Figure 23

Note: Assemble one component of chimney at a time (inner section first, then outer section last) before proceeding with the next complete section.

Continue to assemble the chimney up through framed opening. Assemble just enough to penetrate the roof flashing openings (Figure 24). Always maintain 2" minimum air space to combustible materials and always check each chimney joint (inner and outer) to ensure proper engagement (See ****Note**). Check vertical alignment of chimney so that it projects from the roof in true vertical position.

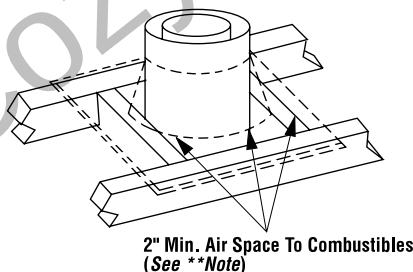


Figure 24

Security's chimney sections do not need to be screwed together. Additional reinforcement is not necessary except in certain offset conditions (refer to page 14, Figure 36).

Step 5. The height of vertical chimney pipe supported only by the fireplace must not exceed 30'. Chimney heights above 30' must be supported by a Model FTF8-S4 stabilizer installed at 30' intervals.

Note: Models FTF8-S4 and FTF10-S4 add 3" net effective height to the total chimney system.

Install Models FTF8-S4 and FTF10-S4 stabilizers by fitting inner section down into respective section of proceeding flue pipe and locking outer stabilizer section into place over the outer chimney pipe. Position for proper clearance through framed opening and nail straps securely (under tension in "shear") into place on framing. Use 8d nails. Attach successive lengths of chimney pipe directly to stabilizer using same techniques as described in Step 4 (Figure 25).

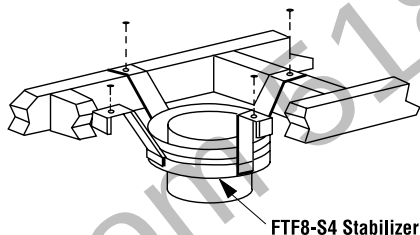


Figure 25

Note: Do not apply excessive pressure to any subsequent chimney sections following the stabilizer when installing. Ensure each subsequent chimney section is securely attached by testing as noted in Step 4.

Step 6. Select the proper Security Chimneys roof flashing based on pitch of roof. Use chart below for selection:

Roof Pitch	FTF8	FTF10
Flat to 6/12	F8F6	F10F6
6/12 to 12/12	F8F12	F10F12

****Note:** 1" clearance when installing FTF8 on 38" models or FTF10 on 43" models.

Next, slide roof flashing over extended chimney section that previously has been installed above the roof opening in Step 4. FTF8 flashings require flashing spacers. Slide flashing all the way down until the flashing base rests flat on the roof (Figure 26). Again, check the vertical position of the chimney and the 2" minimum air space to combustibles (see ****Note**).

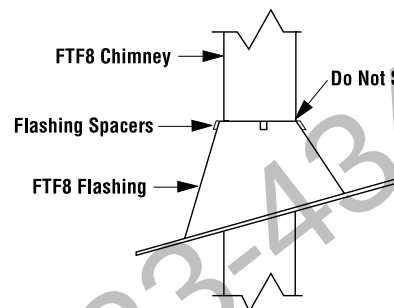


Figure 26

Note: Do not caulk or seal the ventilating openings.

Step 7. Secure flashing by nailing along the perimeter into roof using 8d nails. If shingled roof, slide upper end and sides of roof flashing under shingles (trim if necessary), seal the top and both sides of the flashing to the roof with roof caulking. Cover nail heads with roof caulking (Figure 27).

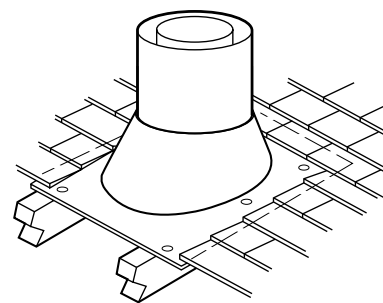


Figure 27

Step 8. The standard Security Chimneys FTF8 roof flashing assemblies include a storm collar. Slide the storm collar over outer chimney, rest on flashing spacers and align with top surface of flashing. Insert tab in slot, pull tight and bend tab back over slot. Seal storm collar to outer chimney with roof caulking or mastic around entire circumference of pipe. Also add extra roof caulking to the tab/slot area to seal completely against water penetration (see Figure 28). Check all joints very carefully to ensure no water intrusion can take place.

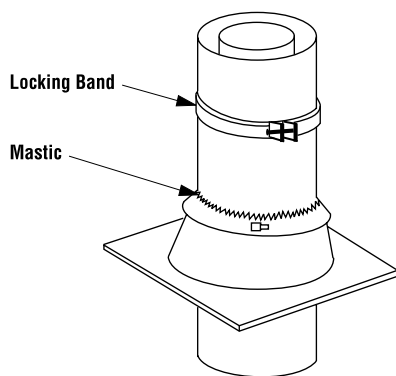


Figure 28

Step 9. Security Chimneys locking bands, Model FLB, may be required if the chimney extends too high above the roof flashing. As a general rule, if the chimney extends more than 6' above the roof flashing, the use of locking bands is advisable to strengthen the chimney assembly. Align the locking band at the chimney joint. Locking bands wrap around pipe joints equally covering the joints of both pipe sections. Use the nut provided and TIGHTEN snugly. Do not overtighten as this might damage the chimney section (refer to Figure 29).

Note: If chimney extends more than 8' above roof surface, guy wires are also recommended. Use three (3) guy wires, attach to locking band assembly, extend and secure to roof in a triangular pattern (Figure 29). Guy wires are not supplied by the manufacturer.

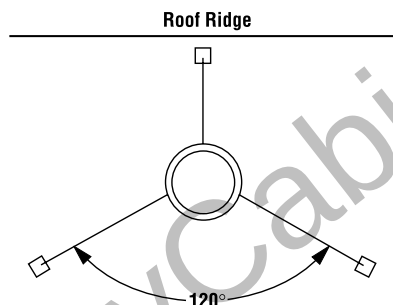


Figure 29

Step 10. Using an FTF8/FTF10-CTD Round Termination:

1. Hold the FTF8/FTF10-CTD over top of last chimney section (Figure 30).
2. Center inner slip section in inner flue pipe-slip down.
3. Center outer locking section over outer flue pipe. Push down until locking tabs are firmly engaged.

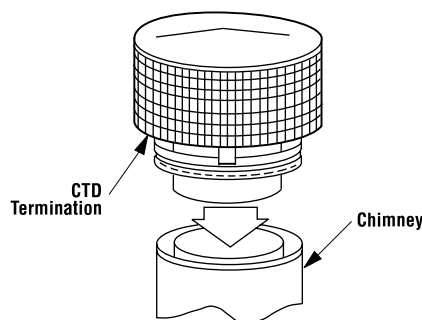


Figure 30

4. Pull up slightly on CTD to ensure locking joint has firmly engaged.

Note: It is recommended that all exterior exposed metal fireplace components; such as terminations, flashings, storm collars and/or flue be painted with a premium quality, high temperature, rust preventative paint designed for metal. This is especially important when installations are made in abnormally adverse or corrosive environments; such as near lakes, oceans or in areas with consistently high humidity conditions. Consult the paint manufacturers instructions for proper preparation and application.

Using an FTF8/FTF10-CTDT Chase Termination:

Refer to specific installation instructions included with the FTF8/FTF10-CTDT chase termination for clearance and installation details.

Using an FTF8/FTF10-CT1 Chase Termination:

Refer to specific installation instructions included with FTF8/FTF10-CT1 chase terminations for clearance and installation details.

Using an FTF8/FTF10-CT2 Chase Termination:

Refer to specific installation instructions included with FTF8/FTF10-CT2 chase terminations for clearance and installation details.

TEN FOOT RULE SUMMARY

The minimum chimney height above the roof and/or to adjacent walls and buildings is specified by all major building codes.

If the horizontal distance from the peak of the roof is less than 10', the top of the chimney must be at least 2' above the peak of the roof.

If the horizontal distance from the chimney edge to the peak of the roof is more than 10' a chimney height reference point is established on the roof surface 10' horizontally from the chimney edge. The top of the chimney must be at least 2' above this reference point. In all cases, the chimney cannot be less than 3' above the roof at the edge of the chimney.

The 2' in 10' rule is necessary in the interest of safety but does not ensure smoke-free operation. Trees, buildings, adjoining roof lines, adverse wind conditions, etc., may require a taller chimney should the fireplace not draft properly (Figure 31).

MULTIPLE TERMINATIONS

If more than one termination is located in the same chase or within the same general proximity, we suggest they should be separated in distance at least 24" horizontally from flue center to flue center and stacked or staggered vertically at least 18" apart, from the termination of one smoke exit to the termination of another smoke exit (see Figure 32).

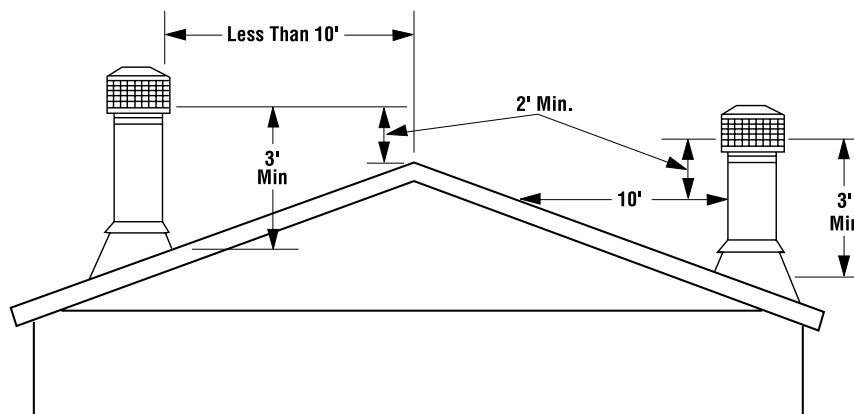


Figure 31

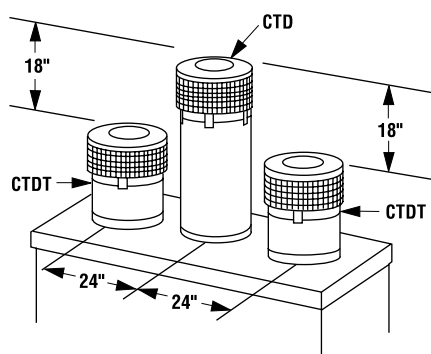


Figure 32

This suggestion is provided in the interest of better operation. If the terminations are located too close to each other, smoke may migrate from one flue into the other.

CHIMNEY COMPONENT CALCULATIONS

The minimum installed height of the BRF-3875 and BCF-3885 Series Fireplace Systems is 12'. The minimum installed height of the BRF-4375 and BCF-4385 Series Fireplace Systems is 15'. The maximum height for all systems is 80'.

To determine the number of chimney sections and chimney components required, follow these steps:

1. Determine total vertical height of the fireplace installation. This dimension is the distance from the surface the fireplace sets on to the point where smoke exits from the termination.
2. Determine the number of chimney components required, except chimney sections. This would include firestop spacers, stabilizers, roof flashing, etc.
3. The effective heights of the components are:

The Fireplace	=	38"
SS Starter Section	=	19 1/4"
FTF8/10-12	=	10 1/4"
FTF8/10-18	=	16 1/4"
FTF8/10-36	=	34 1/4"
FTF8-48	=	46 1/4"
FTF8/10-CTD Termination	=	4"
FTF8/10-CT1 Termination	=	12" to 18"
FTF8/10-CT2 Termination	=	15" to 23"
FTF8/10-CTDT Termination	=	12" to 18"
FTF8/10-S4 Stabilizer *	=	3"

* Required for every 30' of vertical chimney and/or 10' of offset chimney.

4. Determine amount of chimney height required by subtracting total combined height of all pre-selected components (fireplace and chimney components from total desired height.)

Reference Vertical Elevation Chart and determine the number of chimney sections (quantity and length) required.

SPECIAL OFFSET INSTRUCTIONS

Chimney 30° Offset through Floor or Ceiling

It may be necessary to assemble the chimney at 30° when passing through the floor or ceiling area. Use the F8FS30-2 firestop spacer as shown in Figures 33 and 34. Support the chimney at floor or ceiling penetration with a FTF8 stabilizer if distance of chimney below ceiling is 10' or more. Maintain 2" minimum air space to combustibles from chimney sections.

To clear any overhead obstructions, you may offset your chimney system using Security's 30° offset and return elbows. Use two elbows - an offset elbow to initiate the offset and a return elbow to terminate it.

When offsetting directly off the 43" systems, always use a FTF8-10-30 offset elbow. A starter section, Model BC8-SS or FTF8-SS, must then be used as a transition to the BC8 or FTF8 chimney system.

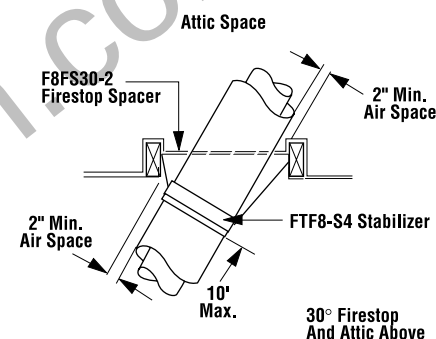


Figure 33

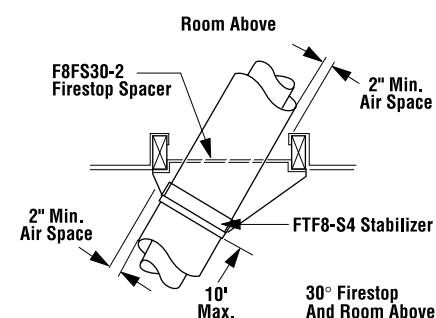


Figure 34

The offset and return elbows may be attached together, or a section or sections of chimney may be used between, but do not exceed 20' in total length between elbows. If sections of pipe exceed 10' between elbows, a chimney stabilizer must be used at the midpoint (see Figure 35). The stabilizer support straps must be attached under tension (in shear) to structural framing members above. When two sets of elbows are used, the maximum combined length of chimney used between elbows cannot exceed 20' (see Figure 36). **Example:** If $C_1 = 10'$ then C_2 cannot exceed 10'.

If an offset exceeds 6' in length, each chimney joint beyond the first 6' of offset to the return elbow, must be secured by a No. 8 x 1/2" sheet metal screw located at the underside of the joint (see Figure 37).

A 1/8" diameter hole must be drilled in the chimney joint using a 1/8" diameter drill. Hole should be drilled in center of joint overlap (see Figure 38). Be sure to drill only through the outer chimney casting. Do not puncture the inner flue.

Maximum offset of chimney system is 30°. Two offsets must not be assembled to form a 60° offset. However, two sets of offset and return elbows may be used on a single flue system, provided the total height of the system exceeds 25'.

Return elbow support straps must be securely attached under tension (in shear) to structural framing members above. Do not substitute a FTF8/10-30 offset elbow in place of a FTF8/10-E30 return elbow.

OFFSET CALCULATIONS

Step 1. Use Offset Chart to determine amount of horizontal offset (A) and height (B) for various chimney section assemblies.

Step 2. Use "Height of Chimney Only" column in The Vertical Elevation Chart to determine combinations of chimney used above return elbow to achieve desired heights. Reference Components Effective Height Chart in vertical elevation chart section.

Step 3. Use Elevation Chart as job estimator only. Add necessary firestop spacers and stabilizers as required. Firestop spacers must be used as shown in Figures 21 and 22 and stabilizers as shown in Figure 26.

FTF8 VERTICAL ELEVATION CHART

Height Of Chimney Only		Number Of FTF8 Chimney Lengths				Height Of Chimney Only		Height Of Chimney Only		Number Of FTF8 Chimney Lengths				Height Of Chimney Only	
Inches	Feet/Inches	12"	18"	36"	48"	MM	M	Inches	Feet/Inches	12"	18"	36"	48"	MM	M
11	0 11	1	0	0	0	279	0.28	472 ¾	39 4 ¾	1	0	0	10	12008	12.01
17	1 5	0	1	0	0	432	0.43	478 ¾	39 10 ¾	0	1	0	10	12160	12.16
21 ¼	1 9 ¼	2	0	0	0	540	0.54	483	40 3	2	0	0	10	12268	12.27
27 ¼	2 3 ¼	1	1	0	0	692	0.69	489	40 9	1	1	0	10	12421	12.42
35	2 11	0	0	1	0	889	0.89	496 ¾	41 4 ¾	0	0	1	10	12617	12.62
47	3 11	0	0	0	1	1194	1.19	507	42 3	1	0	1	10	12878	12.88
51 ¼	4 3 ¼	0	1	1	0	1302	1.30	508 ¾	42 4 ¾	0	0	0	11	12922	12.92
57 ¼	4 9 ¼	1	0	0	1	1454	1.45	513	42 9	0	1	1	10	13030	13.03
63 ¼	5 3 ¼	0	1	0	1	1607	1.61	519	43 3	1	0	0	11	13185	13.19
67 ¼	5 7 ¼	2	0	0	1	1708	1.71	525	43 9	0	1	0	11	13335	13.34
73 ¼	6 1 ¼	1	1	0	1	1861	1.86	529 ¼	44 1 ¼	2	0	0	11	13443	13.44
81 ¼	6 9 ¼	0	0	1	1	2064	2.06	535 ¼	44 7 ¼	1	1	0	11	13595	13.60
93 ¼	7 9 ¼	0	0	0	2	2369	2.37	543	45 3	0	0	1	11	13792	13.79
97 ¼	8 1 ¼	0	1	1	1	2470	2.47	553 ¼	46 1 ¼	1	0	1	11	14053	14.05
102 ½	8 6 ½	1	0	0	2	2604	2.60	555	46 3	0	0	0	12	14097	14.10
109 ¼	9 1 ¼	0	1	0	2	2775	2.78	559 ¼	46 7 ¼	0	1	1	11	14205	14.21
113 ½	9 5 ½	2	0	0	2	2883	2.88	565 ¼	47 1 ¼	1	0	0	12	14357	14.36
119 ½	9 11 ½	1	1	0	2	3035	3.04	571 ¼	47 5 ¼	0	1	0	12	14510	14.51
127 ¼	10 7 ¼	0	0	1	2	3232	3.23	575 ½	47 11 ½	2	0	0	12	14605	14.61
137 ½	11 5 ½	1	0	1	2	3493	3.49	581 ½	48 5 ½	1	1	0	12	14770	14.77
139 ¼	11 7 ¼	0	0	0	3	3537	3.54	589 ¼	49 1 ¼	0	0	1	12	14997	15.00
143 ½	11 11 ½	0	1	1	2	3645	3.65	599 ½	49 11 ½	1	0	1	12	15227	15.23
149 ½	12 5 ½	1	0	0	3	3797	3.80	601 ¼	50 1 ¼	0	0	0	13	15272	15.27
155 ½	12 11 ½	0	1	0	3	3950	3.95	605 ½	50 5 ½	0	1	1	12	15380	15.38
159 ¾	13 3 ¾	2	0	0	3	4058	4.06	611 ½	51 11 ½	1	0	0	13	15532	15.53
165 ¾	13 9 ¾	1	1	0	3	4210	4.21	617 ½	51 5 ½	0	1	0	13	15685	15.69
173 ½	14 5 ½	0	0	1	3	4407	4.41	621 ½	51 9 ½	2	0	0	13	15786	15.79
183 ¾	15 3 ¾	1	0	1	3	4667	4.67	627 ½	52 3 ½	1	1	0	13	15939	15.94
185 ½	15 5 ½	0	0	0	4	4712	4.71	635 ½	52 11 ½	0	0	1	13	16142	16.14
189 ¾	15 9 ¾	0	1	1	3	4820	4.82	645 ½	53 9 ½	1	0	1	13	16396	16.40
195 ¾	16 3 ¾	1	0	0	4	4972	4.97	647 ½	53 11 ½	0	0	0	14	16447	16.45
201 ¾	16 9 ¾	0	1	0	4	5124	5.12	651 ½	54 3 ½	0	1	1	13	16548	16.55
206	17 2	2	0	0	4	5232	5.23	657 ½	54 9 ½	1	0	0	14	16701	16.70
212	17 8	1	1	0	4	5385	5.39	663 ½	55 3 ½	0	1	0	14	16853	16.85
219 ¾	18 3 ¾	0	0	1	4	5582	5.58	667 ¾	55 7 ¾	2	0	0	14	16961	16.96
230	19 2	1	0	1	4	5842	5.84	673 ¾	56 1 ¾	1	1	0	14	17113	17.11
231 ¾	19 3 ¾	0	0	0	5	5886	5.89	681 ½	56 9 ½	0	0	1	14	17310	17.31
236	19 8	0	1	1	4	5994	5.99	691 ¾	57 7 ¾	1	0	1	14	17570	17.57
242	20 2	1	0	0	5	6147	6.15	693 ½	57 9 ½	0	0	0	15	17615	17.61
248	20 8	0	1	0	5	6299	6.30	697 ¾	58 1 ¾	0	1	1	14	17723	17.72
252	21 0	2	0	0	5	6401	6.40	703 ¾	58 7 ¾	1	0	0	15	17875	17.88
258	21 6	1	1	0	5	6553	6.55	709 ¾	59 1 ¾	0	1	0	15	18028	18.03
266	22 2	0	0	1	5	6756	6.76	714	59 6	2	0	0	15	18136	18.14
276	23 0	1	0	1	5	7010	7.01	720	60 0	1	1	0	15	18288	18.29
278	23 2	0	0	0	6	7061	7.06	727 ¾	60 7 ¾	0	0	1	15	18485	18.49
282	23 6	0	1	1	5	7163	7.16	738	61 6	1	0	1	15	18745	18.75
288	24 0	1	0	0	6	7315	7.32	739 ¾	61 7 ¾	0	0	0	16	18790	18.79
294 ¾	24 6 ¾	0	1	0	6	7487	7.49	744	62 0	0	1	1	15	18898	18.90
298 ¼	24 10 ¼	2	0	0	6	7576	7.58	750	62 6	1	0	0	16	19050	19.05
304 ¼	25 4 ¼	1	1	0	6	7728	7.73	756	63 0	0	1	0	16	19202	19.20
312	26 0	0	0	1	6	7925	7.93	760 ¼	63 4 ¼	2	0	0	16	19310	19.31
322 ¼	26 10 ¼	1	0	1	6	8185	8.19	766 ¼	63 10 ¼	1	1	0	16	19463	19.46
324	27 0	0	0	0	7	8230	8.23	774	64 6	0	0	1	16	19660	19.66
328 ¼	27 4 ¼	0	1	1	6	8338	8.34	784 ¼	65 4 ¼	1	0	1	16	19920	19.92
334 ¼	27 10 ¼	1	0	0	7	8490	8.49	786	65 6	0	0	0	17	19964	19.96
340 ¼	28 4 ¼	0	1	0	7	8642	8.64	790 ¼	65 10 ¼	0	1	1	16	20072	20.07
344 ½	28 8 ½	2	0	0	7	8750	8.75	796 ¼	66 4 ¼	1	0	0	17	20225	20.23
350 ½	29 2 ½	1	1	0	7	8903	8.90	802 ¼	66 10 ¼	0	1	0	17	20377	20.38
358 ¼	29 10 ¼	0	0	1	7	9100	9.10	806 ¼	67 2 ¼	2	0	0	17	20479	20.48
368 ½	30 8 ½	1	0	1	7	9360	9.36	812 ¼	67 8 ¼	1	1	0	17	20631	20.63
370 ¼	30 10 ¼	0	0	0	8	9404	9.40	820 ¼	68 4 ¼	0	0	1	17	20834	20.83
374 ½	31 2 ½	0	1	1	7	9512	9.51	830 ¼	69 2 ¼	1	0	1	17	21088	21.09
380 ½	31 8 ½	1	0	0	8	9665	9.67	832 ¼	69 4 ¼	0	0	0	18	21139	21.14
386 ½	32 2 ½	0	1	0	8	9817	9.82	836 ¼	69 8 ¼	0	1	1	17	21241	21.24
390 ¾	32 6 ¾	2	0	0	8	9925	9.93	842 ¼	70 2 ¼	1	0	0	18	21393	21.39
396 ¾	33 0 ¾	1	1	0	8	10077	10.08	848 ¼	70 8 ¼	0	1	0	18	21546	21.55
404 ½	33 8 ½	0	0	1	8	10274	10.27	852 ½	71 0 ½	2	0	0	18	21654	21.65
414 ¾	34 6 ¾	1	0	1	8	10535	10.53	858 ½	71 6 ½	1	1	0	18	21806	21.81
416 ½	34 8 ½	0	0	0	9	10579	10.58	866 ¼	72 2 ¼	0	0	1	18	22003	22.00
420 ¾	35 0 ¾	0	1	1	8	10687	10.69	876 ½	73 0 ½	1	0	1	18	22263	22.26
426 ¾	35 6 ¾	1	0	0	9	10839	10.84	878 ½	73 2 ½	0	0	0	19	22314	22.31
432 ¾	36 0 ¾	0	1	0	9	10992	10.99	882 ½	73 6 ½	0	1	1	18	22416	22.42
437	36 5	2	0	0	9	11100	11.10	888 ½	74 0 ½	1	0	0	19	22568	22.57
443	36 11	1	1	0	9	11252	11.25	894 ½	74 6 ½	0	1	0	19	22720	22.72
450 ¾	37 6 ¾	0	0	1	9	11449	11.45	898 ¾	74 10 ¾	2	0	0	19	22828	22.83
461	38 5	1	0	1	9	11709	11.71	904 ¾	75 4 ¾	1	1	0	19	22981	22.98
462 ¾	38 6 ¾	0	0	0	10	11754	11.75	912 ½	76 0 ½	0	0	1	19	23178	23.18
466 ¾	38 10 ¾	0	1	1	9	11855	11.86	922 ¾	76 10 ¾	1	0	1	19	23438	23.44

FTF10 VERTICAL ELEVATION CHART

Height Of Chimney Only		Number Of FTF10 Chimney Lengths			Height Of Chimney Only		Height Of Chimney Only		Number Of FTF10 Chimney Lengths			Height Of Chimney Only	
Inches	Feet/Inches	12"	18"	36"	MM	M	Inches	Feet/Inches	12"	18"	36"	MM	M
11	0 11	1	0	0	279	0.28	461 1/2	38 5 1/2	0	1	13	11722	11.72
17	1 5	0	1	0	432	0.43	465 1/2	38 9 1/2	2	0	13	11824	11.82
21 1/4	1 9 1/4	2	0	0	540	0.54	471 1/2	39 3 1/2	1	1	13	11976	11.98
27 1/4	2 3 1/4	1	1	0	692	0.69	479 1/2	39 11 1/2	0	0	14	12179	12.18
33 1/4	2 9 1/4	0	2	0	845	0.85	489 1/2	40 9 1/2	1	0	14	12433	12.43
35	2 11	0	0	1	889	0.89	495 1/2	41 3 1/2	0	1	14	12586	12.59
37 1/4	3 1 1/4	2	1	0	946	0.95	499 3/4	41 7 3/4	2	0	14	12694	12.69
43 1/4	3 7 1/4	1	2	0	1099	1.10	505 3/4	42 1 3/4	1	1	14	12846	12.85
51 1/4	4 3 1/4	0	1	1	1302	1.30	513 1/2	42 9 1/2	0	0	15	13043	13.04
55 1/4	4 7 1/4	2	0	1	1403	1.40	523 3/4	43 7 3/4	1	0	15	13303	13.30
61 1/4	5 1 1/4	1	1	1	1556	1.56	529 3/4	44 1 3/4	0	1	15	13456	13.46
67 1/4	5 7 1/4	0	2	1	1708	1.71	534	44 6	2	0	15	13564	13.56
69 1/4	5 9 1/4	0	0	2	1759	1.76	540	45 0	1	1	15	13716	13.71
79 1/4	6 7 1/4	1	0	2	2013	2.01	547 3/4	45 7 3/4	0	0	16	13913	13.91
85 1/4	7 1 1/4	0	1	2	2165	2.17	558	46 6	1	0	16	14173	14.17
89 1/2	7 5 1/2	2	0	2	2273	2.27	564	47 0	0	1	16	14326	14.33
95 1/2	7 11 1/2	1	1	2	2426	2.43	568 1/4	47 4 1/4	2	0	16	14434	14.43
103 1/4	8 7 1/4	0	0	3	2622	2.62	574 1/4	47 10 1/4	1	1	16	14586	14.59
113 1/2	9 5 1/2	1	0	3	2883	2.88	582	48 6	0	0	17	14783	14.78
119 1/2	9 11 1/2	0	1	3	3035	3.03	592 1/4	49 4 1/4	1	0	17	15043	15.04
123 3/4	10 3 3/4	2	0	3	3143	3.14	598 1/4	49 10 1/4	0	1	17	15196	15.20
129 3/4	10 9 3/4	1	1	3	3296	3.30	602 1/4	50 2 1/4	2	0	17	15297	15.30
137 1/2	11 5 1/2	0	0	4	3493	3.49	608 1/4	50 8 1/4	1	1	17	15450	15.45
147 3/4	12 3 3/4	1	0	4	3753	3.75	616 1/4	51 4 1/4	0	0	18	15653	15.65
153 3/4	12 9 3/4	0	1	4	3905	4.91	626 1/4	52 2 1/4	1	0	18	15907	15.91
158	13 2	2	0	4	4013	4.01	632 1/4	52 8 1/4	0	1	18	16059	16.06
164	13 8	1	1	4	4166	4.17	636 1/2	53 0 1/2	2	0	18	16167	16.17
171 1/4	14 3 3/4	0	0	5	4362	4.36	642 1/2	53 6 1/2	1	1	18	16320	16.32
182	15 2	1	0	5	4623	4.62	650 1/4	54 2 1/2	0	0	19	16516	16.52
188	15 8	0	1	5	4775	4.78	660 1/2	55 0 1/2	1	0	19	16777	16.78
192	16 0	2	0	5	4877	4.88	666 1/2	55 6 1/2	0	1	19	16929	16.93
198	16 6	1	1	5	5029	5.03	670 3/4	55 10 3/4	2	0	19	17037	17.04
206	17 2	0	0	6	5232	5.23	676 3/4	56 4 3/4	1	1	19	17189	17.19
215 3/4	17 11 3/4	1	0	6	5480	5.48	684 1/2	57 0 1/2	0	0	20	17386	17.39
222	18 6	0	1	6	5639	5.64	694 3/4	57 10 3/4	1	0	20	17647	17.65
226 1/4	18 10 1/4	2	0	6	5747	5.75	700 3/4	58 4 3/4	0	1	20	17799	17.80
232 1/4	19 4 1/4	1	1	6	5899	5.90	705	58 9	2	0	20	17907	17.91
240	20 0	0	0	7	6096	6.10	711	59 3	1	1	20	18059	18.06
250 1/4	20 10 1/4	1	0	7	6356	6.36	718 3/4	59 10 3/4	0	0	21	18256	18.26
256 1/4	21 4 1/4	0	1	7	6509	6.51	729	60 9	1	0	21	18517	18.52
260 1/2	21 8 1/2	2	0	7	6617	6.62	735	61 3	0	1	21	18669	18.67
266 1/2	22 2 1/2	1	1	7	6769	6.77	739	61 7	2	0	21	18771	18.77
274 1/4	22 10 1/4	0	0	8	6966	6.97	745	62 1	1	1	21	18923	18.92
284 1/2	23 8 1/2	1	0	8	7226	7.23	753	62 9	0	0	22	19126	19.13
290 1/2	24 2 1/2	0	1	8	7379	7.38	763	63 7	1	0	22	19380	19.38
294 3/4	24 6 3/4	2	0	8	7487	7.49	769	64 1	0	1	22	19533	19.53
300 3/4	25 0 3/4	1	1	8	7639	7.64	773 1/4	64 5 1/4	2	0	22	19641	19.64
308 1/2	25 8 1/2	0	0	9	7836	7.84	779 1/4	64 11 1/4	1	1	22	19793	19.79
318 3/4	26 8 3/4	1	0	9	8096	8.10	787	65 7	0	0	23	19990	19.99
324 3/4	27 0 3/4	0	1	9	8249	8.25	797 1/4	66 5 1/4	1	0	23	20250	20.25
328 3/4	27 4 3/4	2	0	9	8350	8.35	803 1/4	66 11 1/4	0	1	23	20403	20.40
334 3/4	27 10 3/4	1	1	9	8503	8.50	807 1/2	67 3 1/2	2	0	23	20511	20.51
342 3/4	28 6 3/4	0	0	10	8706	8.71	813 1/2	67 9 1/2	1	1	23	20663	20.66
352 3/4	29 4 3/4	1	0	10	8960	8.96	821 1/4	68 5 1/4	0	0	24	20860	20.86
358 3/4	29 10 3/4	0	1	10	9112	9.11	831 1/2	69 3 1/2	1	0	24	21120	21.12
363	30 3	2	0	10	9220	9.22	837 1/2	69 9 1/2	0	1	24	21273	21.27
369	30 9	1	1	10	9373	9.37	841 3/4	70 1 3/4	2	0	24	21380	21.38
376 3/4	31 4 3/4	0	0	11	9569	9.57	847 3/4	70 7 3/4	1	1	24	21533	21.53
387	32 3	1	0	11	9829	9.83	855 1/2	71 3 1/2	0	0	25	21730	21.73
393	32 9	0	1	11	9982	9.98	865 3/4	72 1 3/4	1	0	25	21990	21.99
397 1/4	33 1 1/4	2	0	11	10090	10.09	871 3/4	72 6 3/4	0	1	25	22142	22.14
403 1/4	33 7 1/4	1	1	11	10243	10.24	875 3/4	72 11 3/4	2	0	25	22244	22.24
411	34 3	0	0	12	10439	10.44	881 3/4	73 5 3/4	1	1	25	22396	22.40
421 1/4	35 1 1/4	1	0	12	10700	10.70	889 3/4	74 1 3/4	0	0	26	22600	22.60
427 1/4	35 7 1/4	0	1	12	10852	10.85	899 3/4	74 11 3/4	1	0	26	22854	22.85
431 1/2	35 11 1/2	2	0	12	10960	10.96	905 3/4	75 5 3/4	0	1	26	23006	23.01
437 1/2	36 5 1/2	1	1	12	11113	11.11	910	75 10	2	0	26	23114	23.11
445 1/4	37 1 1/4	0	0	13	11309	11.31	916	76 4	1	1	26	23266	23.27
455 1/2	37 11 1/2	1	0	13	11570	11.57	924	77 0	0	0	27	23470	23.47

FTF8/FTF10 OFFSET ELEVATION CHART

A Offset (Inches)	B Height (Inches)	FTF8/10-ES30 Offset/Return Elbow Set	S4 Stabilizer	Number of Chimney Sections				A Offset (mm)	B Height (mm)
				12"	18"	36"	48"		
4	15 ¾	1	0	0	0	0	0	102	400
9	24 ½	1	0	1	0	0	0	229	622
12	29 ¾	1	0	0	1	0	0	305	756
14 ¼	33 ½	1	0	2	0	0	0	362	851
17 ¼	38 ½	1	0	1	1	0	0	438	978
20 ¼	43 ¾	1	0	0	2	0	0	514	1111
21	45 ¼	1	0	0	0	1	0	533	1149
22 ¼	47 ½	1	0	2	1	0	0	565	1207
25 ¼	52 ½	1	0	1	2	0	0	641	1334
26 ¼	54 ¼	1	0	1	0	1	0	667	1378
27	55 ¾	1	0	0	0	0	1	686	1416
28 ¼	57 ¾	1	0	0	3	0	0	718	1467
29 ¼	59 ¼	1	0	0	1	1	0	743	1505
31 ¼	63	1	0	2	0	1	0	794	1600
32 ¼	64 ½	1	0	1	0	0	1	819	1638
34 ¼	68 ¼	1	0	1	1	1	0	870	1734
35 ¼	69 ¾	1	0	0	1	0	1	895	1772
37 ¼	73 ¼	1	0	0	2	1	0	946	1861
38 ¼	75	1	0	0	0	2	0	972	1905
39 ¼	77	1	0	2	1	1	0	997	1956
41 ½	80 ½	1	0	1	4	0	0	1054	2045
43 ¼	83 ¾	1	0	1	0	2	0	1099	2127
44 ¼	85 ¼	1	0	0	0	1	1	1124	2165
45 ¼	87 ½	1	0	0	3	1	0	1149	2223
46 ¼	89	1	0	0	1	2	0	1175	2261
48 ¼	91 ½	1	0	2	0	2	0	1226	2324
49 ¼	94 ¼	1	0	1	0	1	1	1251	2394
50 ¼	95 ¾	1	0	0	0	0	2	1276	2432
51 ¼	97 ¾	1	0	1	1	2	0	1302	2483
54 ¼	103	1	0	0	2	2	0	1378	2616
55 ¼	104 ½	1	0	1	0	0	2	1403	2654
56 ½	106 ½	1	0	2	1	2	0	1435	2705
58 ¼	109 ¾	1	0	0	1	0	2	1480	2788
62 ½	116 ¾	1	1	1	0	3	0	1588	2965
65 ½	122	1	1	0	1	3	0	1664	3099
67 ¾	125 ½	1	1	2	0	3	0	1721	3188
69 ½	128 ¾	1	1	0	0	1	2	1765	3270
70 ¾	130 ¾	1	1	1	1	3	0	1797	3321
73 ¾	136	1	1	0	2	3	0	1873	3454
75 ½	139	1	1	0	0	0	3	1918	3531
79 ¾	146 ¼	1	1	1	0	4	0	2026	3715
80 ¾	148	1	1	1	0	0	3	2051	3759
82 ¾	151 ½	1	1	0	1	4	0	2102	3848
83 ½	153	1	1	0	1	0	3	2121	3886

* 48" chimney sections are not available with the TF10 system.

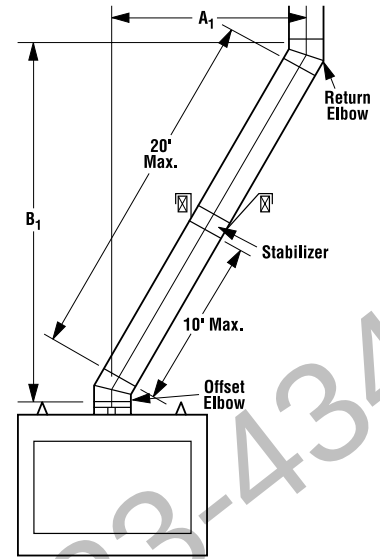


Figure 35

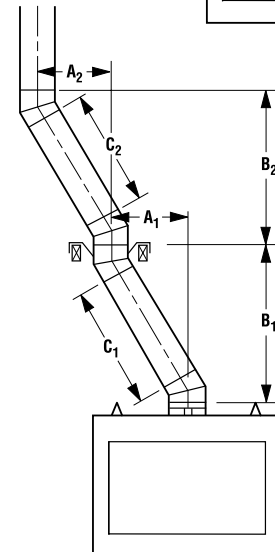
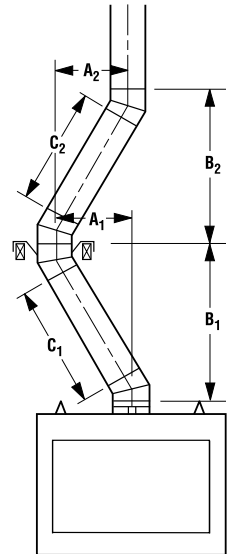


Figure 36

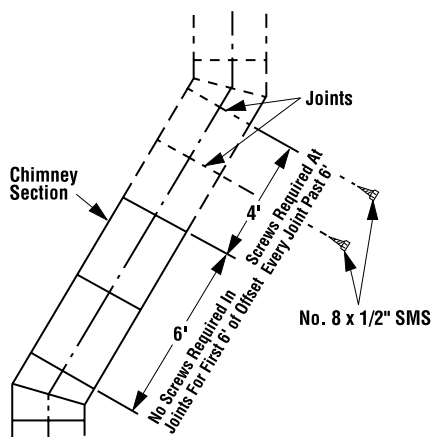


Figure 37

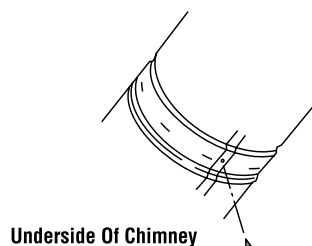


Figure 38

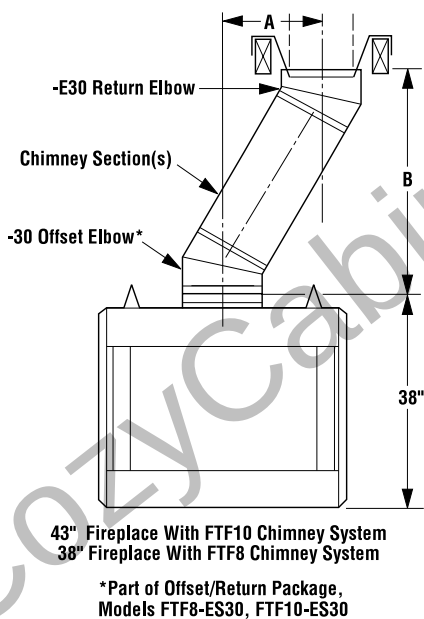


Figure 39

INSTALLING OFFSETS

First, review the appropriate Offset Elevation Chart and Figure 39 for reference.

Step 1. Determine the offset distance where chimney is to pass through the first ceiling-dimension "A." To find this point on your ceiling, first determine the center point for a vertical chimney following the instructions for vertical installation.

Measure height to the ceiling from the top of fireplace-dimension "B." Use the appropriate Offset Elevation Chart to find dimension "A." Mark point where you will drive your nail to show the center point for your offset ceiling cut.

Step 2. Proceed by using the Straight Up Installation Instructions for cutting and framing ceiling and roof openings.

Note: See Framing and Dimension Chart for the sizes of the ceiling and roof openings. The size of the roof opening varies with the degree of pitch of the roof.

Offset Elbow Assembly

Offset elbows install the same as chimney sections. First, snap the inner section INTO the preceding inner section of flue. Check connection by pulling up slightly to ensure a tight fit. Next, the outer sections snap lock OVER the preceding outer section of chimney. Again, check outer section by pulling up slightly to ensure proper connection is made.

Return Elbow Assembly

Return elbows install the same way as round terminations and stabilizers:

Step 1. Hold return elbow over top of last chimney section.

Step 2. Center inner slip section into inner flue pipe-slip down.

Step 3. Center outer-locking section over outer chimney pipe. Push down until locking joint has firmly engaged.

Step 4. Pull up slightly on return elbow to ensure locking joint has firmly engaged.

Step 5. Secure support straps to framing members by nailing under tension in sheer (Figure 40).

Note: The return elbow assembly performs the same function as a stabilizer. Consider this when determining the need for a stabilizer.

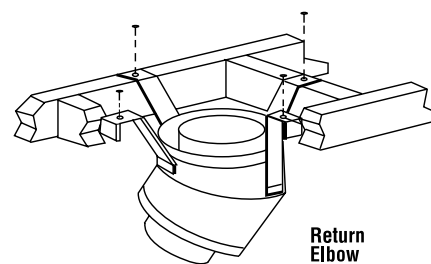


Figure 40

Note: Do not apply excessive pressure to any subsequent chimney section following return elbow assembly when installing. Ensure that each subsequent chimney section is securely attached by testing as noted above.

OPTIONAL EQUIPMENT CONSIDERATIONS

Forced Air Kits – BCF Series Only

If you are installing a forced air kit, Model FAK-1500, on BCF models; see the installation instructions provided with the kit for electrical wiring requirements. Use a fan adapter kit, Model CF-ADK, to allow the fireplace to be connected to the main power supply. The fireplace must be connected to main power supply at time of installation if a forced air kit is to be installed later. The electrical connections must be made before the fireplace is framed and enclosed in the finished walls.

CAUTION: ELECTRICAL CONNECTIONS SHOULD ONLY BE PERFORMED BY A QUALIFIED, LICENSED ELECTRICIAN. MAIN POWER MUST BE OFF WHEN CONNECTING THE CF-ADK ADAPTER TO MAIN ELECTRICAL POWER SUPPLY OR PERFORMING SERVICE.

Variable Speed Wall Switch

Refer to the installation instructions provided with the variable speed wall switch, Model VSWS, for installation details.

Combustion Air Kits

Use combustion air kit, Model AK-4 or AK4-LD, with the BCF and BRF Series fireplaces. Refer to installation instructions packed with the air kits for specific installation information. The outside air kit must be installed before the fireplace is framed and enclosed in the finished walls.

Outside air drawn into the fireplace supplies air to the fire for combustion. Only one combustion air duct on the left side of the fireplace is necessary if installed (*Figure 41*).

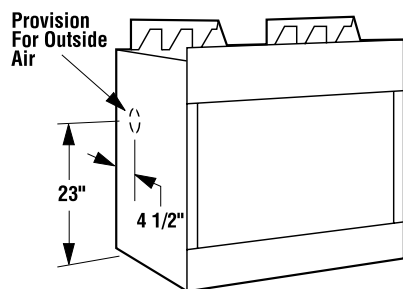


Figure 41

If additional length of duct is necessary, purchase locally available Type 0 or 1 metallic duct. The duct may extend up to 50' in any direction.

Note: When installing the air duct vertically, DO NOT terminate the duct closer than 3' below the chimney top.

There is a one hand operated shut-off valve located in the left side of the fireplace opening behind the screen. To open, pull out all the way. The combustion air damper should be fully open when the fireplace is in use and fully closed when the fireplace is not in operation to prevent outside air from entering your home.

CAUTION: NEVER LOCATE INLET WHERE IT CAN BE BLOCKED BY SHRUBS, SNOW DRIFTS, ETC. NEVER LOCATE INLET IN A GARAGE OR ANY AREA WHERE THERE IS ANOTHER FUEL-BURNING APPLIANCE OR PRODUCT EMITTING COMBUSTIBLE GASES SUCH AS PAINT, GASOLINE, ETC. IN COLD CLIMATES IT IS RECOMMENDED THAT THE COMBUSTION AIR DUCT BE INSULATED.

Outside combustion air ducting may be run upwards or vertically through framing and ceiling joists, with the hood installed through an outside wall and 3' below the termination. Ducting may also be run downward through floor joists and under the home to a ventilated crawl-space not considered part of the living area of the home.

Note: Do not terminate combustion air kit in attic space under any circumstances.

Gas Line Connection

Install a 1/2" gas supply line through fireplace wall for connection to a decorative gas appliance inside the firebox. Outside, the gas supply line connects to a gas shut-off valve recessed flush into the wall or floor. The valve should be controlled by a removable valve key for safety.

Always plumb gas line installation per local codes. Check all connections with soap suds; leaks will bubble. Never test any gas line connection with a match or open flame.

This provision is intended for connection to a decorative gas appliance incorporating an automatic shut-off device and complying with the Standard for Decorative Gas Appliances for installation in vented fireplaces, ANSI Z21.60 (1991) or American Gas Association draft requirements for Gas-Fired Log Lighters for Wood Burning Fireplaces, Draft No. 4 dated August, 1993. Install in accordance with the National Fuel Gas Code, ANSI Z223.1. This complies with the revised U.L. 127 standard.

Vent Free Appliances

These fireplaces have been tested and approved to ANSI/IAS/AGA Z21.11.2 for use with unvented gas appliances and comply with the standard for Factory-Built fireplaces, UL 127, when installed with unvented gas log sets. Special instructions with regards to mantle installations must be taken into consideration when installing such appliances.

These fireplaces have been tested for use with any unvented log set having a maximum rating of 26,000 BTU (38 Models) and 32,000 BTU (43 Models). The minimum mantle configuration for these log sets are outlined in *Figure 42*.

Log sets with 40,000 BTU may be installed provided that no combustible mantle projections are placed lower than 18 inches from the fireplace opening.

These fireplaces have been marked with a maximum rating of 26,000 BTU (38 Models) and 32,000 BTU (43 Models) to assure that homeowners do not exceed the allowable limits for all allowed installations of mantles. That limit may be increased to 40,000 BTU, provided that the mantle installed complies with the 18-inch limitation and a copy of these instructions are available.

NEVER INSTALL AN UNVENTED GAS LOG SET WITH A BTU RATING GREATER THAN 26,000 BTU (38 MODELS) AND 32,000 BTU (43 MODELS) IF THE COMBUSTIBLE MANTLE PROJECTIONS ARE LOWER THAN 18 INCHES ABOVE THE FIREPLACE OPENING.

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

CAUTION: PLUMBING CONNECTIONS SHOULD ONLY BE PERFORMED BY A QUALIFIED, LICENSED PLUMBER. MAIN GAS SUPPLY MUST BE OFF WHEN PLUMBING GAS LINE TO FIREPLACE OR PERFORMING SERVICE.

If you're installing a gas line, connect it before the fireplace is framed and enclosed in the finished wall. The gas knockout is determined by the indentation located at the bottom and slightly off center in the side refractories. **THE KNOCKOUT IS ALWAYS REMOVED FROM INSIDE THE FIREPLACE. DO NOT REMOVE THE KNOCKOUT UNLESS YOU ARE INSTALLING A GAS LINE.** If removal is attempted from the outer wrapper, side refractory damage may occur. With a medium-sized hammer, lightly tap the surface of the indentation. The refractory material is very thin in this area and is easily removed. Once a small hole has been made, continue tapping until you have reached sufficient diameter for the gas line to fit through. The entire knockout does not have to be removed. Remove insulation in the gas line channel.

IMPORTANT: REPACK INSULATION MATERIAL IN SQUARE HOLE AROUND GAS LINE, INTERIOR AND EXTERIOR OF FIREPLACE, TO SEAL.

Glass Doors

If glass doors are to be installed on these fireplaces, refer to specific installation instructions packed with the glass doors. Use only the doors that are listed for use with these fireplaces. Use of other non-listed glass door on these fireplaces may constitute a potential fire hazard and is not recommended.

CAUTION: CERTAIN GLASS DOORS OVERLAP THE BLACK METAL FACING OF THE FIREPLACE. IF THE FIREPLACE HAS BEEN FACED WITH NONCOMBUSTIBLE MATERIALS, THERE MIGHT NOT BE SUFFICIENT CLEARANCE TO INSTALL THE GLASS DOORS OF YOUR CHOICE. ENSURE ADEQUATE CLEARANCE IS MAINTAINED AT ALL TIMES SO AS NOT TO INTERFERE WITH THE INSTALLATION AND OPERATION OF GLASS DOORS.

COLD CLIMATE INSULATION

If you live in a cold climate, it is especially important to seal all cracks around the fireplace opening with noncombustible material and wherever cold air could enter the room. Surrounding materials must be caulked where it meets the black metal facing of the fireplace to avoid cold air intrusion. Use noncombustible caulking material only on fireplace facing to seal. Also, the outside air inlet duct should be wrapped with noncombustible insulation to minimize the formation of condensation. Do not place insulation materials on top of fireplace or against chimney sections.

Note: A 2" air space must be preserved for all combustible materials extending for any continuous length adjacent to the chimney (See ****Note**).

It is especially important to insulate between the studs of an outside chase cavity and under the floor if the floor is above ground level. Do not place insulation directly against the fireplace or chimney system.

FIREPLACE FINISHES

Mantels and Trim

It is sometimes best to frame your fireplace after it is positioned and the chimney is installed. Frame enclosure for chimney and fireplace with 2 x 4's (or heavier) lumber.

Note: The header may rest on the two (2) metal top spacers on top of the unit but the header must not be notched to fit around the spacers.

These fireplaces may sit directly on a combustible surface. A 2" air space is required between combustible framing and the chimney (See ****Note**). Combustible mantels and trim may be installed 12" above the fireplace opening as per NFPA 211, Section 7-3.3.3. and Figure 42. If a mantel is of a non-combustible material, it is exempt from these requirements as long as it does not interfere with the installation or operation of glass doors or block the inlets and outlets on the BCF Series fireplaces.

****Note:** 1" clearance when installing FTF8 on 38" models or FTF10 on 43" models.

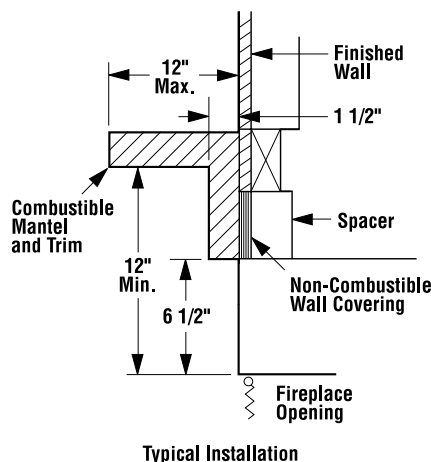


Figure 42

Hearth Extensions and Wall Shields

A hearth extension must be installed with all fireplaces. It is to protect the combustible floor in front of the fireplace from both radiant heat and sparks.

The hearth extension must extend 8" beyond both sides of the fireplace opening and 16" beyond the front (see Figure 43). Use a hearth extension constructed of a durable noncombustible material having an equal or greater insulating value of $k = .84 \text{ BTU/In Hr Ft}^2 \text{ } ^\circ\text{F}$ or a thermal resistance that equals or exceeds $r = 1.19 \text{ In Ft}^2 \text{ Hr } ^\circ\text{F/BTU}$. With these values, determine the minimum thickness/material required using the formula and the Table on page 17.

Note: Any noncombustible material whose k value is less than .84 or whose r value is more than 1.19 is acceptable.

If the fireplace is installed on a combustible floor, use the metal safety strips (provided) on the floor extending half under the fireplace and half under the hearth extension (refer to Figures 6 and 7).

A wall shield is required where a continuous perpendicular side wall is within 12" of the fireplace opening, (see Figure 44). Use a 24" W x 30" H wall shield constructed of millboard or a durable, noncombustible material having an equal or greater insulating value than $K = .54 \text{ BTU/IN Ft}^2 \text{ Hr } ^\circ\text{F}$. At no time may a perpendicular side wall be closer than 7".

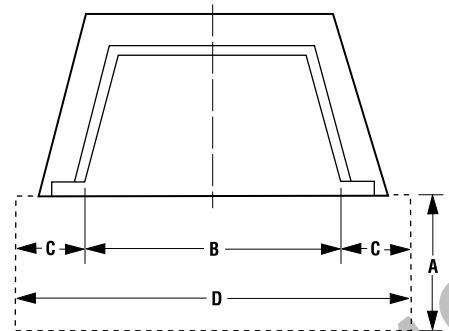


Figure 43

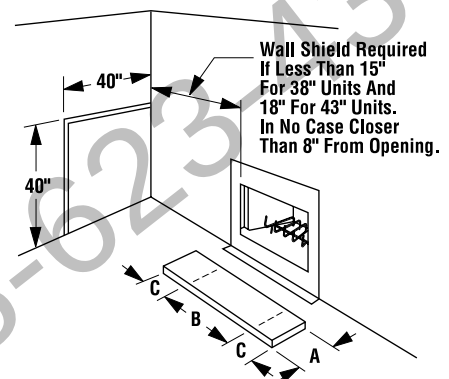


Figure 44

Hearth Extension Dimensions

Opening	38"	43"
A	16"	16"
B	30 1/4"	35"
C	8"	8"
D	46 1/4"	51"

If a continuous perpendicular side wall is closer than 15" (18" on 43" models) to the fireplace opening, a wall shield is required. Use a 40" x 40" x 1/2" wall shield constructed of millboard or a durable non-combustible material with equal or greater insulating value than:

$$K = .84 \text{ BTU-IN./SQ.FT.-HR.-} ^\circ\text{F}$$

In no case shall a continuous perpendicular side wall be closer to the fireplace opening than 8".

If fireplace is installed diagonally across a 90° corner no wall shields are required.

Methods of Determining Hearth Extension and Wall Shield Equivalents

To determine the thickness required for any material when either the k or r values are known:

T_M = Thickness of material in inches
 k_M = K value of desired material
 r_M = R value of desired material
 T_L = Minimum listed thickness

Example: Micore CV230 is to be used for the hearth extension fireplace. How thick must this material be?

Using the k formula:

Desired k value of desired Min. thickness
 Required = material (per inch) x of Listed
 Thickness k value of listed Material
 material (per inch)

$$T_M (\text{inches}) = \frac{k_M}{0.84} \times T_L$$

$$T_M (\text{inches}) = \frac{0.43^*}{0.84} \times \frac{5}{8}''$$

Answer using $k = 0.51 \times \frac{5}{8}'' = 0.32 = \frac{3}{8}''$
 $\frac{3}{8}''$ thickness Micore will be required.

Using the r formula:

Desired r value of listed Min. thickness
 Required = material (per inch) x of Listed
 Thickness r value of desired Material
 material (per inch)

$$T_M (\text{inches}) = \frac{1.19}{r_M} \times T_L$$

$$T_M (\text{inches}) = \frac{1.19}{2.33^*} \times \frac{5}{8}''$$

Answer using $r = 0.51 \times \frac{5}{8}'' = 0.32 = \frac{3}{8}''$
 $\frac{3}{8}''$ thickness Micore will be required.

At times it is important to know what combination of materials are acceptable for use as hearth extensions. The "R values" are used to determine acceptable combinations of materials because "R values" are additive where r and k values are not.

$$\text{"R value"} = \frac{1}{k} = r \times \text{thickness of material used}$$

*value taken from chart

Alternative Hearth Extension and Wall Shield Materials

Listed Material	Values		Min. Thick
	k	r	T_L
Millboard	.84	1.19	1"
Alternative Materials	Values		Min. Thick
	k	r	T_M
Wonderboard	1.92	0.56	2 1/4"
Common brick	5.00	0.20	6"
Cement mortar	5.00	0.20	6"
Ceramic tile	12.5	0.08	15"
Marble	11.0	0.09	13"
Micore CV230 (U.S. Gypsum)	0.43	2.33	1/2"
Ceraform 126 (Johns-Manville)	0.27	3.70	3/8"

Example: Given that the required "R value" for a suitable hearth extension used must be equal to or greater than:

$$\text{"R"} = r \times T_L = 1.19 \times \frac{5}{8}'' = 0.74.$$

If it is desired to elevate a marble hearth extension to a level of 5" or more above the floor surface. What combination of noncombustible materials can be used to accomplish this?

If common brick is used so that the 3 1/2" dimension is the height, "R" for the common brick becomes:

$$\text{"R"}_M = r \times T_M = 0.20 \times 3 \frac{1}{2}'' = 0.70$$

Using 1/2" of mortar to set the brick, "R" for the mortar is calculated as follows:

$$\text{"R"}_M = r \times T_M = 0.20 \times \frac{1}{2}'' = 0.10$$

A 3/4" marble slab set in 1/2" mortar covers the brick, "R" for the marble and mortar becomes:

$$\text{"R"}_M = r \times T_M = 0.09 \times \frac{3}{4}'' = .068$$

$$\text{"R"}_M = r \times T_M = 0.20 \times \frac{1}{2}'' = .10$$

The sum of all "R values" is:

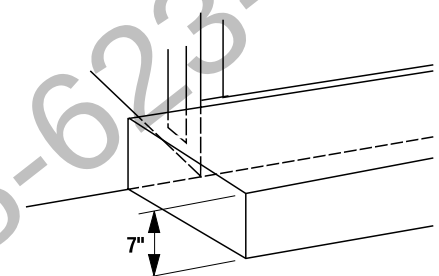
$$.70 + .10 + .068 + .10 = .968$$

This would not be an acceptable combination of material for the hearth extension since the total calculated "R value" of the materials used does not exceed the required "R value" of 1.19.

WARNING: THE CRACK BETWEEN THE FIREPLACE AND THE HEARTH EXTENSION MUST BE SEALED WITH A NON-COMBUSTIBLE MATERIAL.

WARNING: WHEN INSTALLING THE HEARTH EXTENSION, BE CAREFUL NOT TO BLOCK THE HEAT-CIRCULATING AIR INLET GRILL ON BCF MODELS.

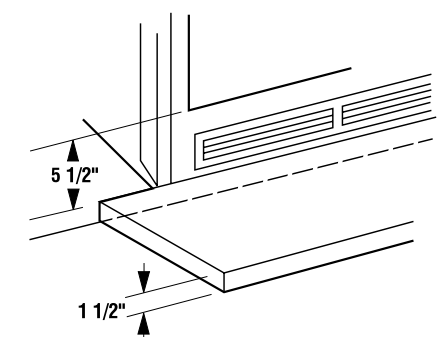
WARNING: WHEN INSTALLING BRF MODELS, THE FIREPLACE MUST BE RAISED IF HEIGHT OF HEARTH EXTENSION EXCEED 7" ABOVE THE BOTTOM OF THE FIREPLACE (FIGURE 45).



Max. Thickness Of Hearth Extension When BRF Models Are On The Floor

Figure 45

WARNING: WHEN INSTALLING BCF MODELS, THE FIREPLACE MUST BE RAISED IF HEIGHT OF HEARTH EXTENSION EXCEEDS 1 1/2" ABOVE THE BOTTOM OF FIREPLACE (FIGURE 46).



Max Thickness of Hearth Extension When BCF Models Are On Floor

Figure 46

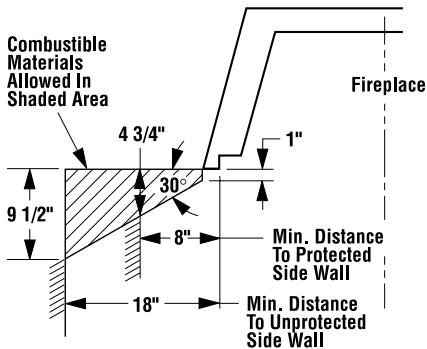
Secure the hearth extension to the floor to prevent possible shifting.

FINISH TO YOUR TASTE

There are a wide variety of “finished looks” for these fireplaces, from formal wall decor with elaborate mantels to rustic wood paneling or warm brick facings.

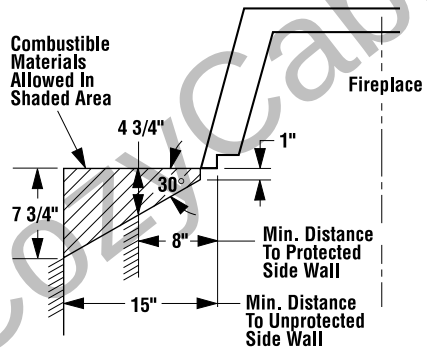
Only noncombustible materials like stone, tile, brick, etc., may overlap the black front facing. Do not extend these materials beyond the black facing and into the firebox area. Be sure not to interfere with the installation and operation of glass doors or block the upper or lower grilles. Seal all joints between the black facing and wall surrounds to prevent air intrusion. Use noncombustible caulking material only to seal the black metal facing to the surround material on the finished wall.

Combustible materials may project beyond the sides of the fireplace opening as long as they are kept within the shaded areas illustrated in *Figures 47 and 48*.



43" Models

Figure 47

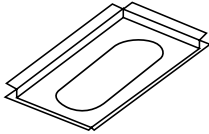


38" Models

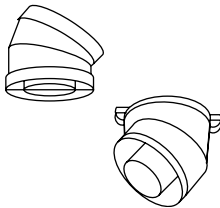
Figure 48

INSTALLATION COMPONENTS

The following items are available for use in the installation of this appliance.



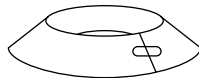
Firestop Spacer (30°)	63L32	F8FS30-2
	63L37	F10FS30-2



Offset/ Return Package (30°)	63L23	FTF10-ES30
	63L22	FTF8-ES30

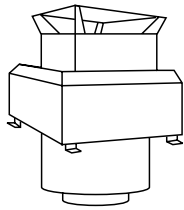


Locking Band	63L60	FLB
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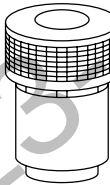


Storm Collar	63L59	FSC
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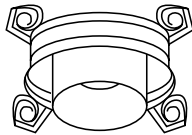
Model	Part Number	Weight
BRF-3875	037633	170 lbs.
BRF-4375	037634	190 lbs.
BCF-3885	037631	170 lbs.
BCF-4385	037632	190 lbs.



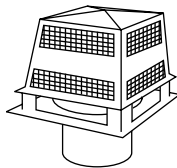
Chase Termination (Square)	63L52	FTF10-CT2
	63L51	FTF8-CT2



Chase Termination (Round)	63L46	FTF10-CTDT
	63L45	FTF8-CTDT



Stabilizer	63L25	FTF8-S4
	63L26	FTF10-S4

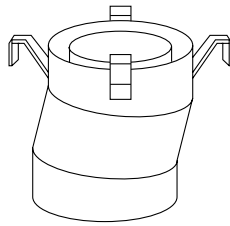


Chase Termination (Square)	63L49	FTF10-CT1
	63L48	FTF8-CT1

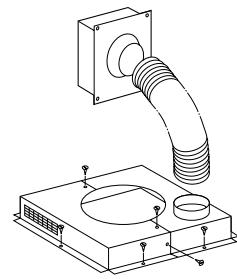
INSTALLATION COMPONENTS



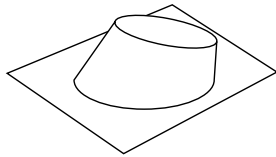
Chimney Section	63L10	FTF8-12
	63L13	FTF8-18
	63L14	FTF8-36
	63L15	FTF8-48
	63L16	FTF10-12
	63L17	FTF10-18
	63L18	FTF10-36



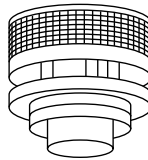
Combination Offset/Return Elbow	63L34 63L28	FTF10-OR15 FTF8-OR15
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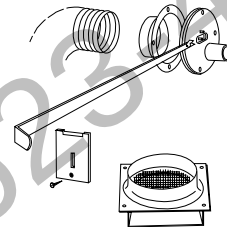
Collar Duct Kit	63L61	FTF8-CCK1-LD
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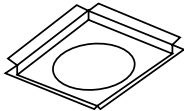
Flashing	63L38	F8F6
	63L39	F8F12
	63L40	F10F6
	63L41	F10F12



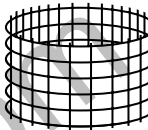
Round Termination	63L42 63L43	FTF8-CTD FTF10-CTD
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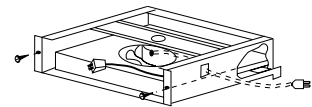
Combustion Air Kits	011761 011763	AK-4 AK-4LD
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Firestop Spacer (Flat)	63L31	F8FS-2
Firestop Spacer (Flat)	63L36	F10FS-2



Spark Arrester	63L57	FSA-2
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Forced Air Kit	011781	FAK-1500
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NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

The manufacturer 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.

LENNOX®

HEARTH PRODUCTS

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