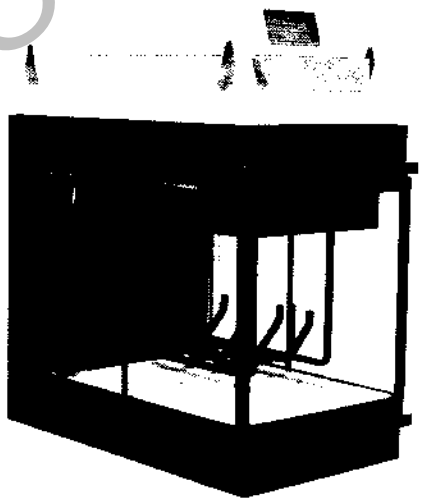
Installation Instructions

For Superior's Peninsula Series Fireplace Model PF-9000



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

Do not alter or modify the construction of the fireplace or it's 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.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT: ASSURE THE FIREPLACE IS IN A SQUARE AND PLUMB CONDITION, USING SHIMS AS NECESSARY AT SIDES AND BOTTOM, BEFORE APPLYING FINISHING MATERIALS. THE FIREPLACE MAY BECOME OUT OF SQUARE DUE TO ROUGH HANDLING, INSTALLATION AND FRAMING; THUS PREVENTING FLUSH AND PLUMB APPLICATION OF FACING MATERIALS.

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 and national codes and regulations.

3. This model fireplace must be installed with Superior Model TF10 (10" (250mm) inside diameter) Thru- Flow Chimney System only. This system is intended for use as a residential type appliance. Chimney 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 logs, chemical chimney cleaners or flame colorants in your fireplace.

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

7. NEVER use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or any 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 gas to the fireplace while working on it. This will prevent any possible burns.

11. This fireplace is not intended to be used as a primary or secondary heat source. It's unique design is foremost intended for architectural, decorating and aesthetic qualities.

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

14. Superior Fireplace Company does not warranty 'smoke free' operation nor are we responsible for inadequate system draft caused by mechanical systems, general construction conditions, inadequate chimney heights, adverse wind conditions and/or unusual environmental factors or conditions beyond our control.

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

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)

TYPICAL INSTALLATION

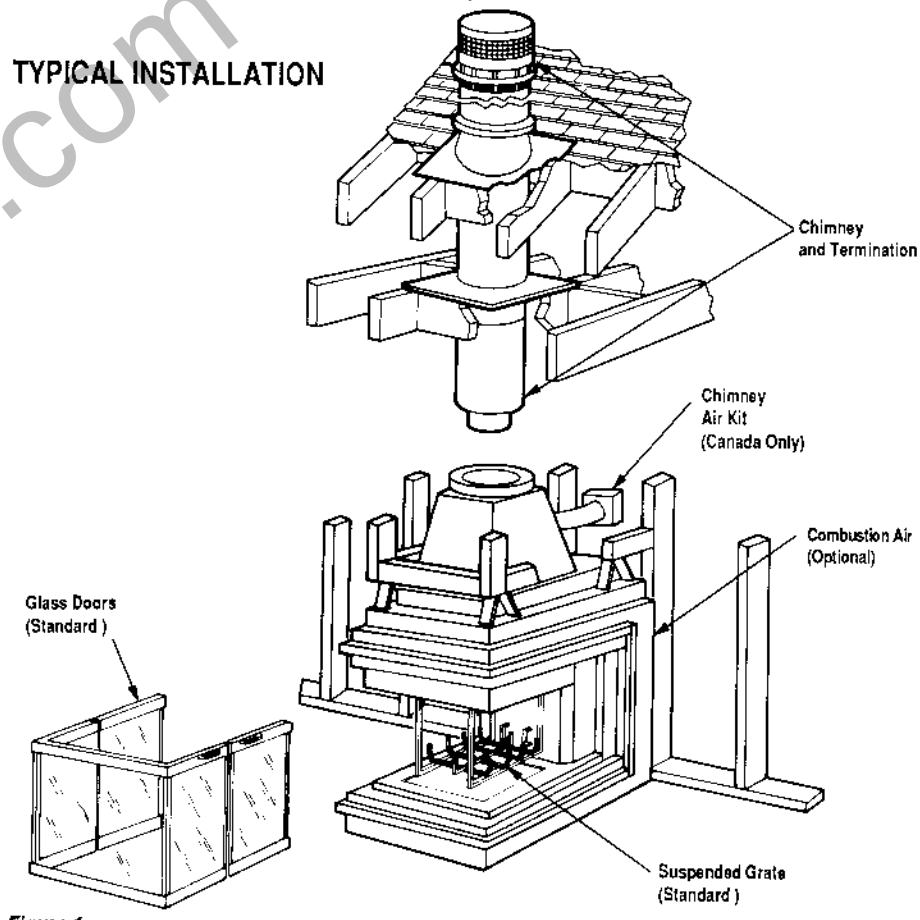


Figure 1

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

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 accessory equipment supplied by Superior and the techniques employed in utilizing 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.

IMPORTANT: WHEN INSTALLING THIS FIREPLACE IN CANADA, THE CHIMNEY AIR KIT MUST BE INSTALLED PER WARNOCK HERSEY INTERNATIONAL, INC. LISTING.

IMPORTANT: WHEN INSTALLING THIS FIREPLACE IN CANADA, THE REQUIRED MINIMUM AIR SPACE TO COMBUSTIBLES FROM THE CHIMNEY IS 2" (51MM).

INTRODUCTION
General Information

The Peninsula Series is a decorative radiant heat wood burning fireplace featuring two sided neo-ceramic glass doors with a stationary glass end panel. A suspended steel bar grate is also included with the Peninsula to properly position the fire. An outside combustion air kit, Model CAK-4, is available as optional equipment.

***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 Peninsula Series fireplace has been tested and listed by Warnock Hersey International, Inc. (Report No. 620-1058) to U.L. 127 standard for U.S. installations and U.L.C. S610 standard for Canadian installations. This unit is intended to be installed in residential homes and buildings of conventional construction, not in mobile homes.

This fireplace system is intended 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, Uniform Building Codes and/or the Canadian National Codes.

FAILURE TO USE PARTS MANUFACTURED BY SUPERIOR FIREPLACE COMPANY OR VARIATIONS IN TECHNIQUES AND CONSTRUCTION MATERIALS DESCRIBED IN THIS MANUAL MAY CREATE A FIRE HAZARD AND VOID SUPERIOR'S LIMITED WARRANTY.

The Peninsula system consists of four "sub-systems":
1. The Peninsula and Door Assembly
2. The Chimney and Termination
3. The Optional Combustion Air Kit
4. Chimney Air Kit (Canada Only)

CLEARANCES AND HEIGHT REQUIREMENTS

The Peninsula Series may be placed on or near normal construction materials.* The combustion air kit, firestop spacer and roof flashings (not chase flashings) may be placed directly on or against normal construction material*. The chimney requires a minimum 1" (25mm)** ***(See **Note)*** air space to combustibles. A combustible mantel may be installed 12" above the fireplace opening as per NFPA 211, Section 7-3.3.3. In Canada the minimum is 14" (356mm) above the opening.

The fireplace and chimney 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.

*Construction Materials:
- framing materials
- plywood
- particle board
- flooring
- millboard
- dry wall
- paneling
- etc.

For questions, please call your distributor or Superior Fireplace Company. Special restrictions apply to the front and facing of the fireplace and nearby walls (See pages 15, 16 and 17).

*****Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.***

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

FRAMING WALL VARIATIONS

As many as six (6) different framed wall configurations can be constructed to enclose the PF-9000 fireplace. The following illustrations depict these variations of wall enclosures. Several of these designs may incorporate book shelves, wood storage boxes, etc.

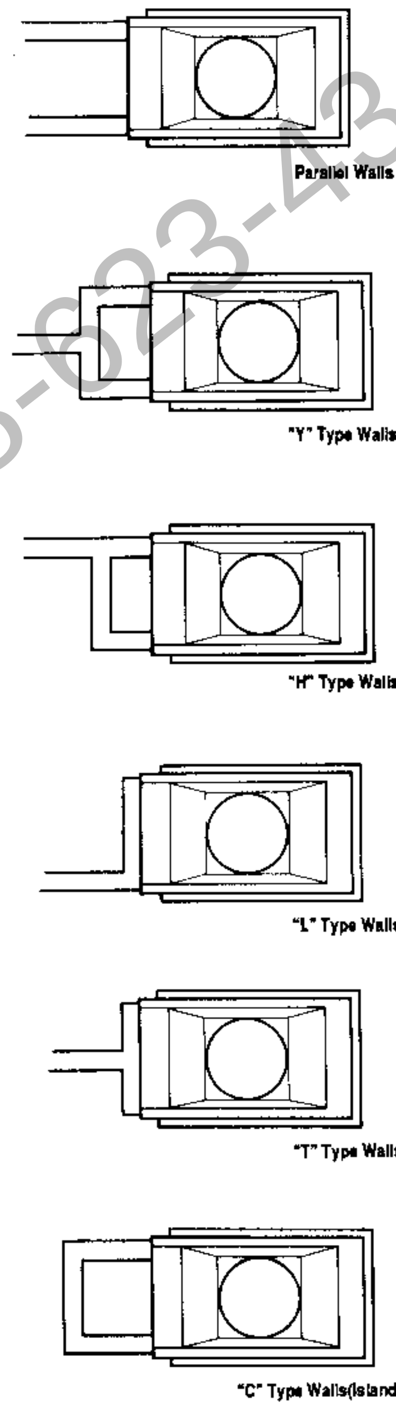


Figure 2

CHIMNEY SYSTEM

Superior manufactured fireplace system, Model PF-9000, is designed and code listed for use with Superior's TF10 Thru-Flow Chimney Systems. Always use Superior's Thru-Flow chimney components with this fireplace. Do not modify or alter these components as this may cause a potential serious hazard and void Superior's Limited Warranty.

CHIMNEY HEIGHT

The total height of your PF fireplace system from the surface the fireplace rests on to the chimney top must not exceed 80'0" (124.38m) and must also meet minimum system height chart. As with all chimney installations, avoid overhead obstructions such as trees, power lines, etc.

MINIMUM SYSTEM HEIGHT

Model PF-9000	TF10
Vertical Installation	15'0" (4.57m)
One Offset	16'0" (4.88m)
Two Offsets	25'0" (7.62m)

ASSEMBLY OUTLINE
Before You Start

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

Check the operation of the damper. To open, twist the handle either clockwise or counter-clockwise and push up on the handle. To close, pull handle down and twist 1/4 turn clockwise or counter-clockwise. Damper will be locked in the closed position.

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.

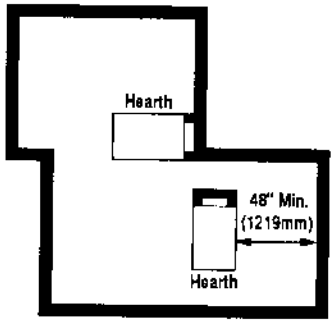


Figure 3

Carefully consider the position of the fireplace openings 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.

A combustible side wall cannot be closer than 4" (102mm). The fireplace openings must be kept a minimum of 8" (204mm) from a combustible side wall and a minimum of 48" (1.2m) from an opposite wall. Since 4" (102mm) is the minimum distance the fireplace can be installed to a side wall, there is no need for a protective wall shield (Refer to *Figures 17, 19, 20 and 52*).

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 air kit (Canada only)

3. Install the chimney system.

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 finish wall material, surround and hearth extension to your individual taste.

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

INSTALLING THE FIREPLACE

The PF is a unique three sided fireplace and requires certain minor variations from the normal framing procedures for both new construction and remodeling. In all cases, side and end headers must be installed above the fireplace face so that necessary clearances will be maintained between the chimney and framing members. Reference *Figures 8 and 9* for details. 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 no cold air can enter room from under the fireplace.

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 THE MINIMUM REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIAL. NO MATERIALS OF ANY KIND ALLOWED IN THESE AREAS.

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 and surround materials such as brick, stone, etc., to be installed. Shipping weights for the fireplace and chimney may be found in the Suggested List Prices.

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 (51 x 152mm, 51 x 203mm or 51 x 250mm), 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.

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.

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

TO INSTALL:

Step 1. Slide Peninsula into prepared framing or position fireplace in its final position and frame later. (*Figure 4*).

Step 2. Insert the metal safety strips, packaged with the fireplace, beneath the fireplace as illustrated (*Figure 5*). The safety strips should overlap 1" (25mm) for continual coverage of the floor.

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

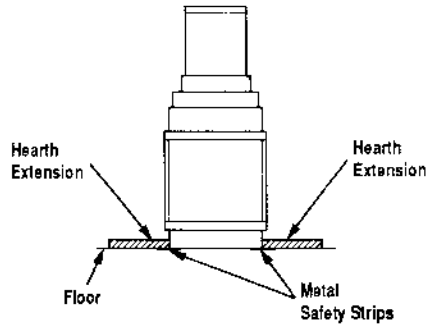


Figure 4

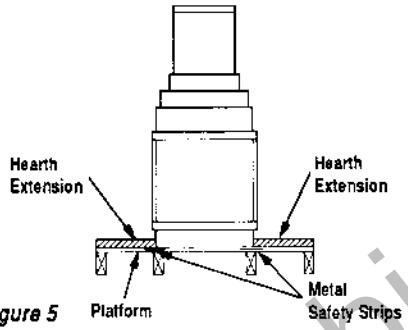


Figure 5

Note: Install the hearth extension only as illustrated.

The safety strips should extend in front and sides of the fireplace 2" (51mm). 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 6 and 7*). The safety strips should be tacked down to prevent possible movement.

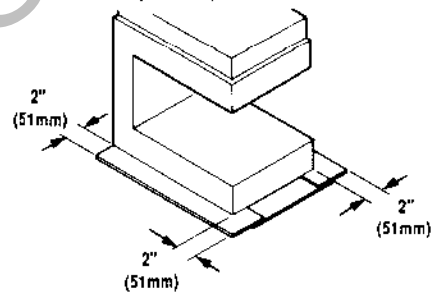


Figure 6

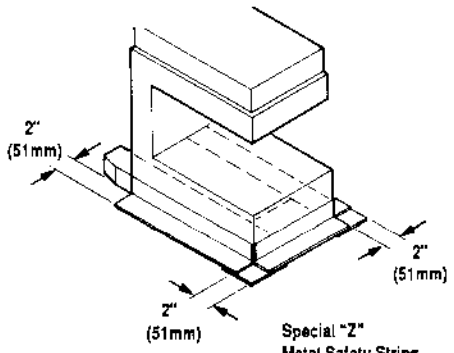


Figure 7

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. False header may be positioned directly on top of the fireplace spacers (*Figures 8 and 9*).

IMPORTANT: UNDER NO CIRCUMSTANCES CAN THE FIREPLACE TOP SPACERS BE REMOVED OR MODIFIED. DO NOT NOTCH THE HEADER TO FIT LOWER THAN THE FIREPLACE TOP SPACERS.

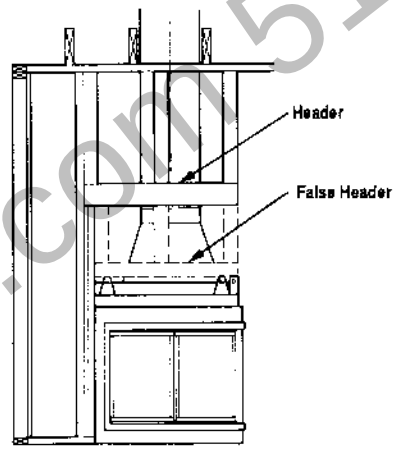


Figure 8

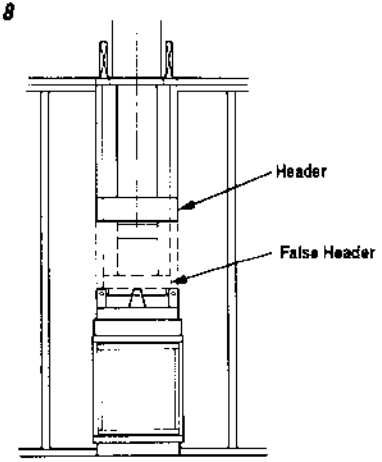


Figure 9

Step 4. Fireplace should be secured to side framing members using nailing flanges. Use 8d nails (*Figure 10*).

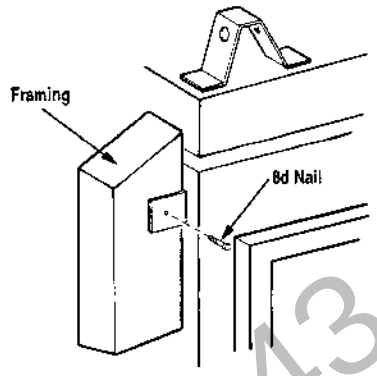


Figure 10

FOR CANADIAN INSTALLATIONS, PROCEED WITH STEPS 5-8.

Step 5. Remove one of the knockouts from the transition and attach the 4" (102mm) collar from the CAK-4 air kit to the transition, using the four (4) No. 8 x 1/2" screws provided (*Figure 11*).

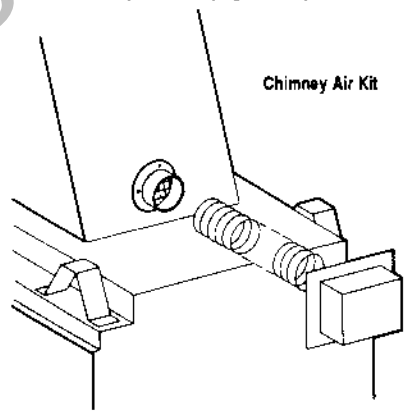


Figure 11

Step 6. Connect the 4" (102mm) Class 1 duct to the collar (just mounted) with the two (2) No. 6 x 3/8" screws provided in the hardware kit.

Step 7. Route the Class 1 duct out the back or side wall, up through the ceiling or floor joists to an outside wall. The duct should be located above snow level.

Note: If the fireplace is installed against an inside wall, the Class 1 duct may be extended into a ventilated attic space at least 18" (457mm) above the attic floor. Secure the duct hood to a vertical post with the inlet positioned downward. Ensure nothing blocks the hood opening. the duct must never terminate higher than the chimney.

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

Step 8. Cut or frame hole through the outside wall for the installation of the duct inlet hood. A 4 1/2" (114mm) diameter hole is sufficient. Feed the loose end of the flexible duct through the hole cut for the inlet hood and attach to collar on inlet hood using two (2) No. 6 x 3/8" screws provided. Insert hood into opening. Secure in place with the No. 8 x 1/2" screws provided or with nails driven through holes in hood flange. Seal with non-combustible water-proof silicon type caulking. If additional duct is needed, use Class 1 metallic duct.

INSTALLING THE CHIMNEY SYSTEM

Step 1. Check flue damper for proper operation. When the damper is in the fully closed position, the damper handle should be down in the locked position. When the damper is in the fully open position the damper handle must be moved to the left in an upward position.

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 1" (25MM) *(SEE **NOTE)* CHIMNEY AIR SPACE TO COMBUSTIBLE FRAMING MEMBERS THROUGHOUT VERTICAL OR OFFSET CHIMNEY INSTALLATION. ALSO MAINTAIN AIR SPACE ON TOP OF FIREPLACE AS DEFINED BY THE SPACERS AND STANDOFFS (*FIGURE 12*).

A minimum 1" (25mm) (See **Note) air space must be reserved for all combustible materials extending for any continuous length surrounding the chimney.**

Reference *Figures 21 and 22* 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.

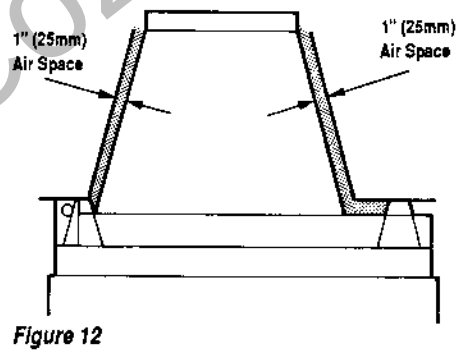


Figure 12

*****Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.***

FIREPLACE SPECIFICATIONS

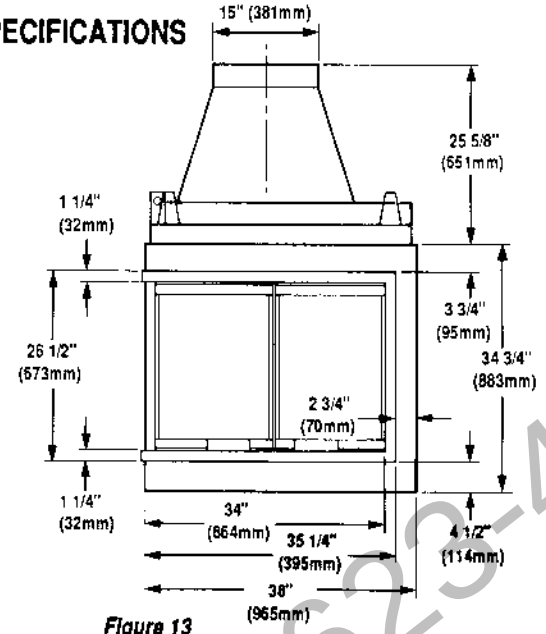
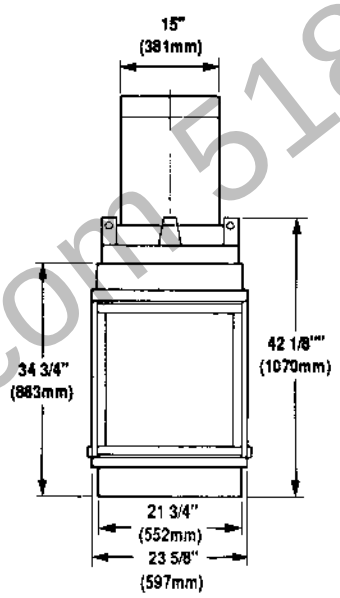


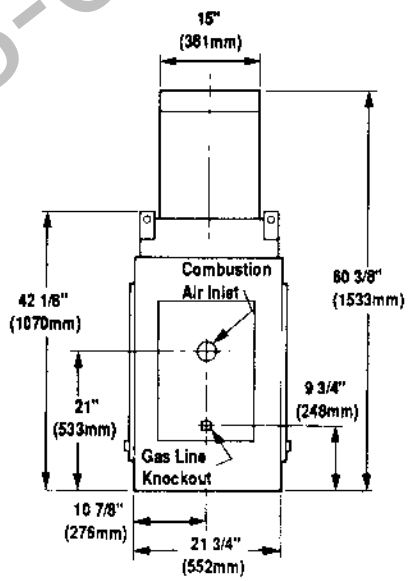
Figure 13

Front View



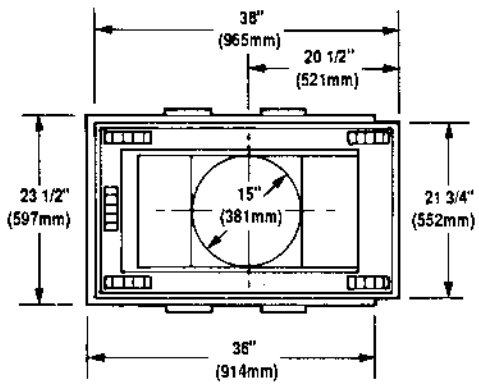
OpenEnd View

Figure 14



Closed End View

Figure 15



Top View

Figure 16

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

FRAMING SPECIFICATIONS

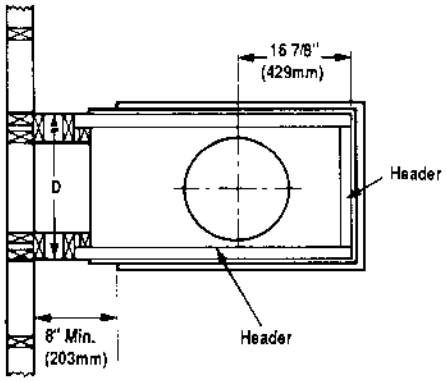
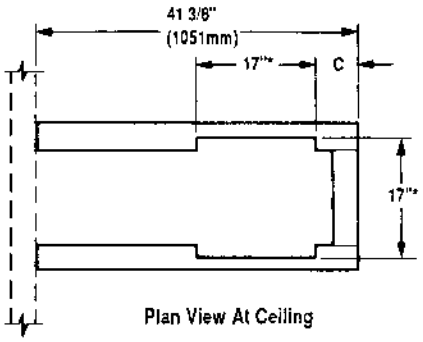
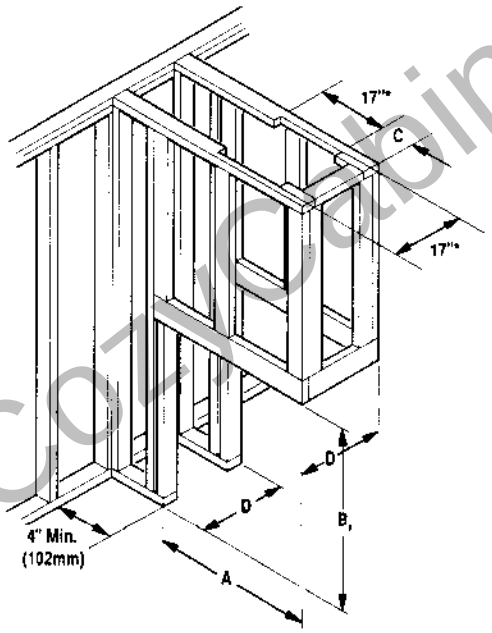


Figure 17



Plan View At Ceiling

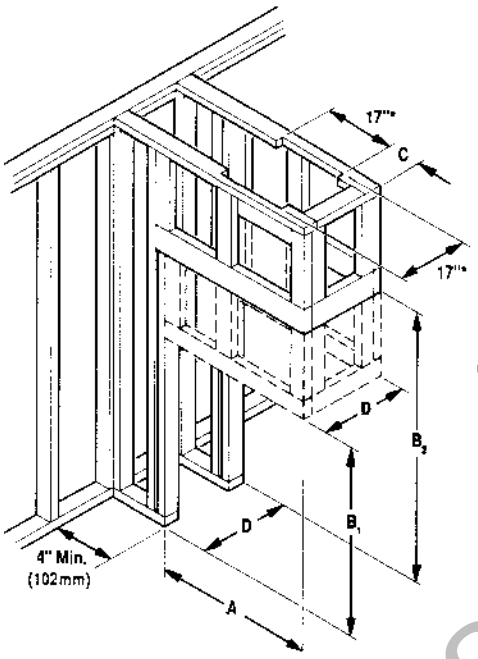
Figure 18



Framing After Fireplace Is Positioned

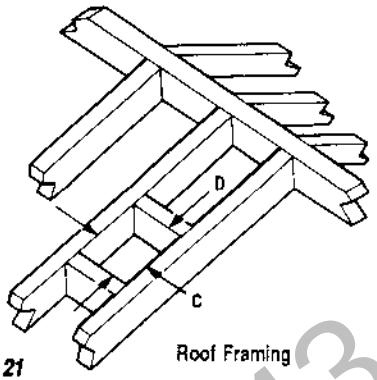
Figure 19

**Note: 19" (483mm) when installing in Canada*



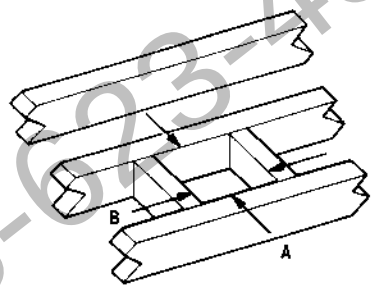
Framing Before Fireplace Is Positioned

Figure 20



Roof Framing

Figure 21



Ceiling Framing

Figure 22

FRAMING DIMENSIONS

A	37 3/8" (950mm)
B_1	42 3/8" (1076mm)
B2	60 1/2" (1537mm)
C (U.S.)	8 3/8" (638mm)
C (Canada)	7 3/8" (188mm)
D	20 1/2" (521mm)

FRAMING DIMENSIONS FOR ROOF

Pitch	TF10 at 1" Clr.		TF10 at 2" Clr.	
	C	D*	C	D*
0/12	17" (432mm)	17" (432mm)	19" (483mm)	19" (483mm)
6/12	17" (432mm)	19" (483mm)	19" (483mm)	21" (533mm)
12 /12	17" (432mm)	24" (619mm)	19" (483mm)	26" (660mm)

*Perpendicular to roof ridge

FRAMING DIMENSION FOR CEILING

Flue Type	A	B
TF10 Vertical At 1"	17" (432mm)	17" (432mm)
TF10 Vertical At 2"	19" (438mm)	19" (438mm)
TF10 Offset 30° At 1"	17" (432mm)	26" (660mm)
TF10 Offset 30° At 2"	19" (438mm)	28" (711mm)

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

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 23*). Then plumb from ceiling or roof level directly above hole which has just been completed.

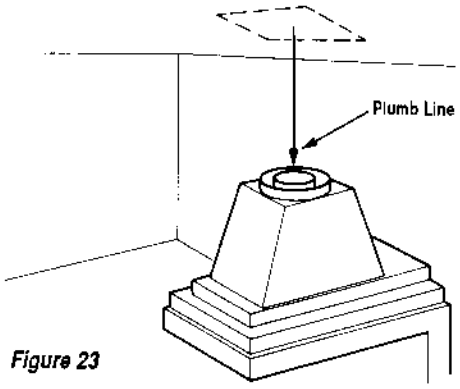


Figure 23

Step 3. Position appropriate firestop spacer at ceiling and nail temporarily with two (2) 8d nails. Use flat firestop spacer, Models 10FS or 10FS-2, if chimney penetrates ceiling vertically. If chimney penetrates ceiling at 30° angle (offset chimney), use Models 10FS30 or 10FS30-2. 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:** 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 24 and 25).*

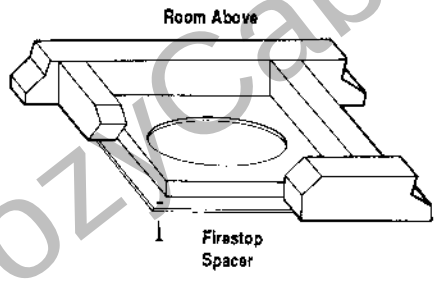


Figure 24

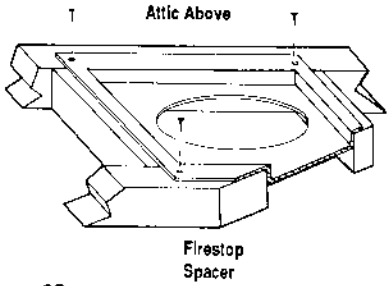


Figure 25

For Canada Only

When installing the chimney system through an open attic space, the attic shield assembly-firestop spacer must be used (*Figure 26*). This installation procedure is Warnock Hersey International, Inc. listed only for use in Canada.

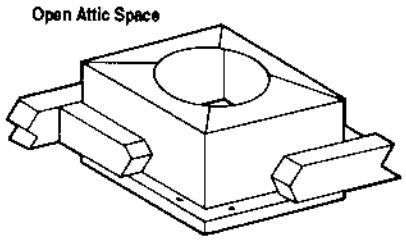


Figure 26

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 tabs engage properly.*

The TF10 chimney system is a two piece chimney, which snaps together from the fireplace up. Start with the inner flue section. With the hemmed end down, snap lock it into 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 succeeding sections. 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 (*Figure 27*).

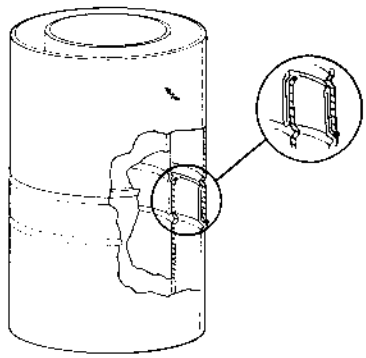


Figure 27

Outer pipe section installs in just the opposite way; the hemmed end goes UP and each new section goes OVER the outside of the previous section installed (*Figure 28*).

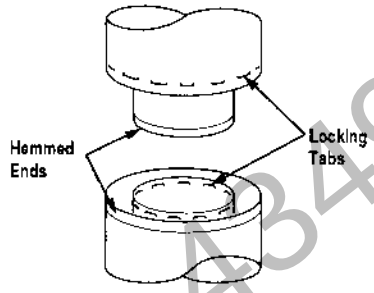


Figure 28

***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 ceiling opening. Assemble just enough to penetrate the roof flashing openings (*Figure 29*). Always maintain 1" (25mm)** ***(See **Note)*** minimum air space to combustible materials and always check each pipe joint (inner and outer) to ensure proper engagement. Check vertical alignment of chimney pipe so that it projects the roof in a true vertical position.

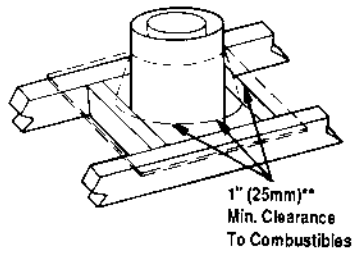


Figure 29

Superior chimney sections should not be screwed together and it is not required for additional reinforcement

Step 5. The height of vertical chimney pipe supported only by the fireplace must not exceed 30' (9.1m). Chimney heights above 30' (9.1m) must be supported by a Model 10-S4 unitized stabilizer installed at 30' (9.1m) intervals.

***Note:** The Model 10-S4 adds 2 1/2" (64mm) net effective height to the total chimney system.*

*****Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.***

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

Install the Model 10-S4 stabilizer 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.

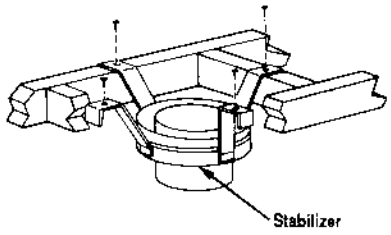


Figure 30

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 proper Superior roof flashing based on pitch of roof. Use chart below for selection:

Roof Pitch	TF10
Flat to 6/12	10-F6
6/12 to 12/12	10-F12

Next, slide roof flashing over extended chimney section that previously has been installed above the roof opening in Step 4. Slide flashing all the way down until the flashing base rests flat on the roof. Again, check the vertical position of the chimney and the 1" (25mm)** ***(See **Note)*** minimum air space to combustibles.

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 31*).

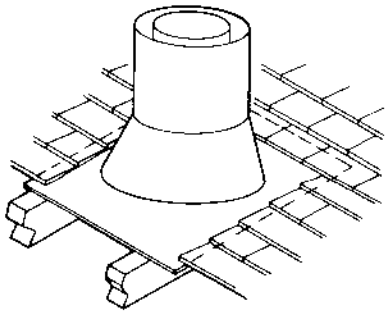


Figure 31

Step 8. The standard Superior roof flashing assemblies include a storm collar. Slide storm collar over outer chimney, align with top surface of flashing, insert storm 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 where storm collar meets flashing and to the tab/slot area to seal completely against water penetration (*Figure 32*). Check all joints very carefully to ensure no water intrusion can take place.

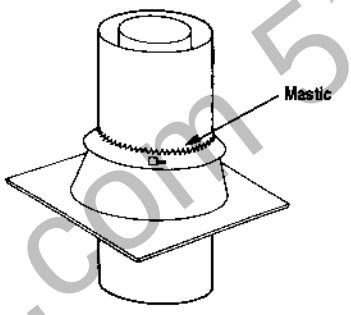


Figure 32

Step 9. Superior locking band, Model 10LB, may be required if the chimney extends too high above the roof flashing. As a general rule, if the chimney extends more than 6' (1.8m) above the roof/flashing, the use of locking bands is advisable to strengthen the chimney joints. Align the locking band at the pipe joint. Locking bands wrap around pipe joints equally covering the joints of both pipe sections. Use nut provided and TIGHTEN snugly. Do not over tighten as this might damage chimney section (*Figure 33*).

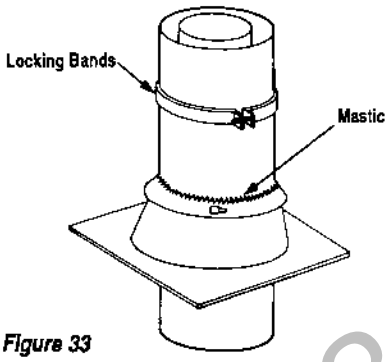


Figure 33

Note: *If chimney extends more than 8' (2.4m) 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 34). Guy wires are not supplied by Superior.*

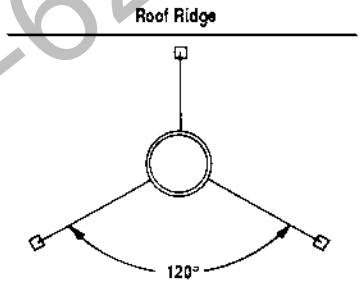


Figure 34

Step 10. Using a CTD Round Termination:

1) Hold CTD over top of last chimney section (*Figure 35*).
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.

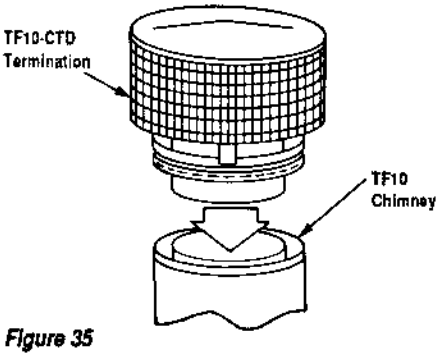


Figure 35

***Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.**

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

Note: A special galvanized over-dipped CTD termination (P/N 031102) and CTDT termination (P/N 031112) is available for installations susceptible to corrosive environments. Contact your distributor or Superior Customer Service for pricing and availability.

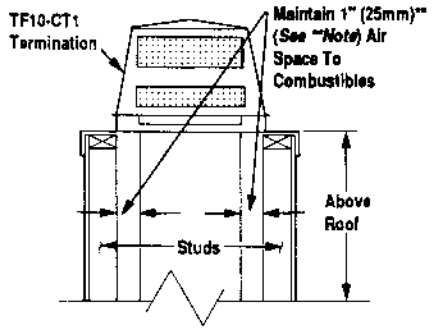


Figure 36

Using a CT1 Chase Termination

Refer to specific installation instructions included with CT1 chase termination for clearance statments and installation details.

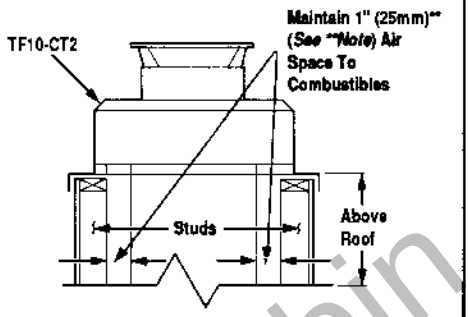


Figure 37

Using a CT2 Chase Termination

Refer to specific installation instructions included with the CT2 chase termination for clearance statments and installation details.

Using a CTDT Chase Termination

Refer to specific installation instructions included with the CTDT chase termination.

***Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.**

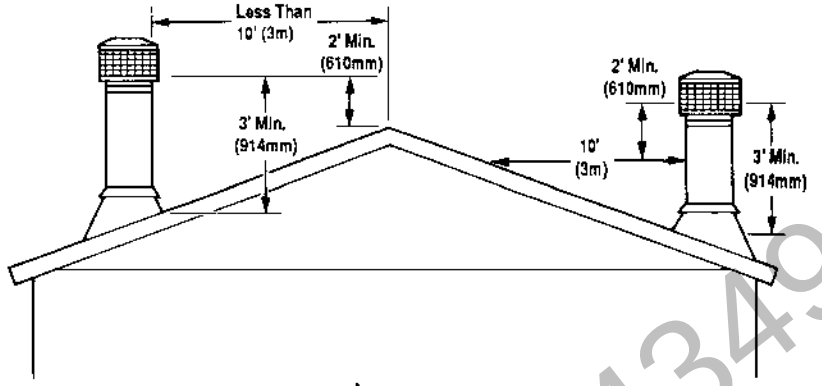


Figure 38

***Note:** It is recommended that all exterior exposed related 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 manufactures instructions for proper preparation and application.*

For Canadian installations, all chimney installed outside the building must be double-wall stainless steel, effective 1/1/92. The appropriate model designations (with a "C" suffix) are located in the back of this manual.

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 then 10' (3m), the top of the chimney must be at least 2' (610mm) above the peak of the roof.

If the horizontal distance from the chimney edge to the peak of the roof is more than 10' (3m) a chimney height reference point is established on the roof surface 10' (3m) horizontally from the chimney edge. The top of the chimney must be at least 2' (610mm) above this reference point. In all cases, the chimney cannot be less then 3' (914mm) 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 38*).

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" (610mm) horizontally from flue center to flue center and stacked or staggered vertically at least 18" (457mm) apart, from the termination of one smoke exit to the termination of another smoke exit (*Figure 39*).

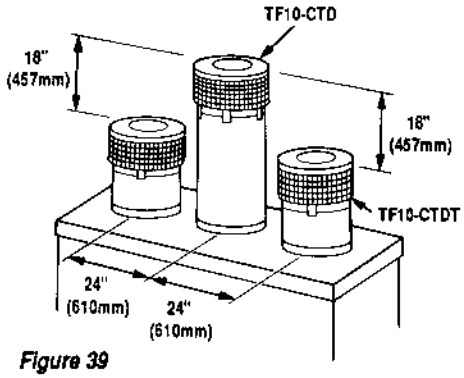


Figure 39

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.

TF10 CHIMNEY COMPONENT CALCULATIONS

The minimum installed height of the PF series fireplace system (including fireplace and chimney components) is 15'0" (4.57m). The maximum system height is 80'0" (24.38 m).

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

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:

PF Fireplace = 59 5/8" (1514mm)

CTD Termination = 4" (102mm)

CT1 Termination = 12" to 18" (305mm to 457mm)

CT2 Termination = 15" to 23" (381mm to 584mm)

CTDT Termination = 12" to 18" (305mm to 457mm)

S4 Stabilizer * = 2 1/2" (64mm)*

* Required for every 30' (9.1m) of vertical chimney and 10' of offset chimney.

4. Determine amount of chimney height required by subtracting total combined height of all preselected 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

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

The offset and return elbow may be attached together, or a section or sections of chimney may be used between, but do not exceed 20' (6.1m) in total length between elbows. If sections of pipe exceed 10' (3m) between elbows, a chimney stabilizer must be used at the midpoint. The stabilizer support straps must be attached under tension (in shear) to structural framing members above. When two sets of offset elbows are used, the maximum combined length of chimney used between elbows cannot exceed 20' (6.1m) (*Figure 44*). Example: If C_1 = 10' (3m) then C_2 cannot exceed 10' (3m). A 30° offset elbow, angling in any direction, may be the first piece of flue pipe off the top of the fireplace flue collar.

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 mental screw located at the underside of the joint (*Figure 40*).

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 (*Figure 41*). Be sure to drill only through the outer chimney casting. Do not puncture the inner flue.

Maximum offset of the chimney system is 30°. Two offset elbows 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' (7.5m).

Return elbow support straps must be securely attached under tension (in shear) to structural framing members above.

OFFSET CALCULATIONS

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

2. Use "Height of Flue Only" column to determine combinations of pipe used above return elbow to achieve desired heights. Reference Components Effective Height Chart in vertical elevation chart section.

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 24 and 25* and stabilizers as shown in *Figure 30*.

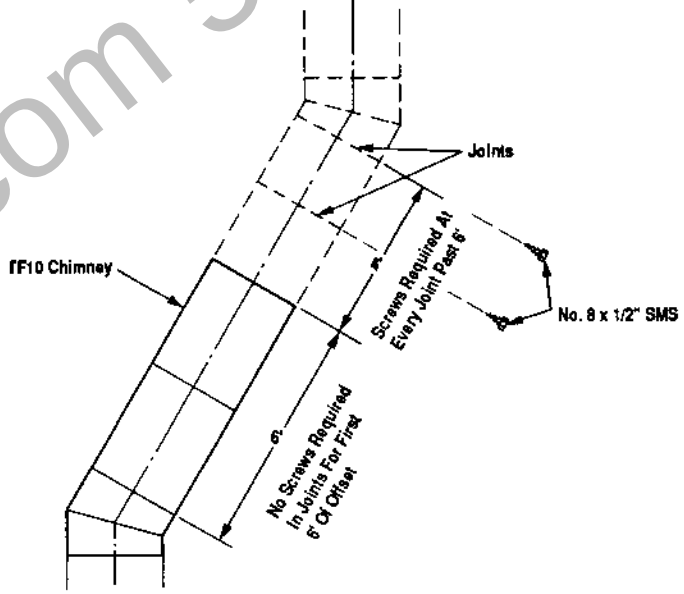


Figure 40

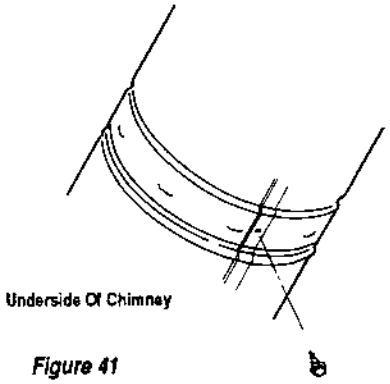


Figure 41

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

TF10 VERTICAL ELEVATION CHART (METRIC)

inches x 25.4 = mm

Height Of Flue Only		Number TF Flue Lengths			Height Of Flue Only		Number TF Flue Lengths			Height Of Flue Only		Number TF Flue Lengths			Height Of Flue Only		Number TF Flue Lengths		
mm	m	12	18	36	mm	m	12	18	36	mm	m	12	18	36	mm	m	12	18	36
2038	2.04	1		2	7449	7.45		1	8	12821	12.82	2		14	18231	18.23	1	1	20
2191	2.19		1	2	7563	7.56	2		8	12973	12.97	1	1	14	18421	18.42			21
2305	2.31	2		2	7715	7.72	1	1	8	13164	13.16			15	18498	18.50	2	1	20
2445	2.45	1	1	2	7906	7.91			9	13240	13.24	2		14	18688	18.69	1		21
2635	2.64			3	7982	7.98	2	1	8	13430	13.43	1		15	18840	18.84		1	21
2724	2.72	2	1	2	8172	8.17	1		9	13583	13.58		1	15	18955	18.96	2		21
2902	2.90	1		3	8325	8.33		1	9	13697	13.70	2		15	19107	19.11	1	1	21
3054	3.05		1	3	8439	8.44	2		9	13849	13.85	1	1	15	19298	19.30			22
3169	3.17	2		3	8592	8.59	1	1	9	14040	14.04			16	19374	19.37	2	1	21
3321	3.32	1	1	3	8782	8.78			10	14116	14.12	2	1	15	19564	19.56	1		22
3525	3.53			4	8858	8.86	2	1	9	14307	14.31	1		16	19717	19.72		1	22
3600	3.60	2	1	3	9049	9.05	1		10	14459	14.46		1	16	19831	19.83	2		22
3791	3.79	1		4	9201	9.20		1	10	14573	14.57	2		16	19983	19.98	1	1	22
3943	3.94		1	4	9303	9.30	2		10	14726	14.73	1	1	16	20174	20.17			23
4058	4.06	2		4	9468	9.47	1	1	10	14916	14.92			17	20250	20.25	2	1	22
4210	4.21	1	1	4	9658	9.66			11	14992	14.99	2	1	16	20441	20.44	1		23
4401	4.40			5	9722	9.72	2	1	10	15183	15.18	1		17	20593	20.59		1	23
4477	4.48	2	1	4	9925	9.93	1		11	15335	15.34		1	17	20707	20.71	2		23
4667	4.67	1		5	10077	10.08		1	11	15450	15.45	2		17	20860	20.86	1	1	23
4820	4.82		1	5	10192	10.19	2		11	15602	15.60	1	1	17	21050	21.05			24
4934	4.93	2		5	10344	10.34	1	1	11	15792	15.79			18	21126	21.13	2	1	23
5086	5.09	1	1	5	10535	10.54			12	15869	15.87	2	1	17	21317	21.32	1		24
5277	5.28			6	10611	10.61	2	1	11	16059	16.06	1		18	21469	21.47		1	24
5353	5.35	2	1	5	10801	10.80	1		12	16212	16.21		1	18	21584	21.58	2		24
5544	5.54	1		6	10954	10.95		1	12	16326	16.33	2		18	21736	21.74	1	1	24
5696	5.70		1	6	11068	11.07	2		12	16478	16.48	1	1	18	21927	21.93			25
5810	5.81	2		6	11220	11.22	1	1	12	16669	16.67			19	22003	22.00	2	1	24
5950	5.95	1	1	6	11411	11.41			13	16745	16.75	2	1	18	22193	22.19	1		25
6153	6.15			7	11500	11.50	2	1	12	16935	16.94	1		19	22346	22.35		1	25
6229	6.23	2	1	6	11678	11.68	1		13	17088	17.09		1	19	22460	22.46	2		25
6420	6.42	1		7	11830	11.83		1	13	17202	17.20	2		19	22612	22.61	1	1	25
6572	6.57		1	7	11944	12.94	2		13	17355	17.36	1	1	19	22803	22.80			26
6687	6.69	2		7	12097	12.10	1	1	13	17545	17.55			20	22879	22.88	2	1	25
6839	6.84	1	1	7	12287	12.29			14	17621	17.62	2	1	19	23070	23.07	1		26
7029	7.03			8	12363	12.36	2	1	13	17812	17.81	1		20	23222	23.22		1	26
7106	7.11	2	1	7	12554	12.55	1		14	17964	17.96		1	20	23336	23.34	2		26
7296	7.30	1		8	12706	12.71		1	14	18078	18.08	2		20					

TF10 VERTICAL ELEVATION CHART (FEET AND INCHES)

Height Of Flue Only		Number TF-10 Flue Lengths			Height Of Flue Only		Number TF-10 Flue Lengths			Height Of Flue Only		Number TF-10 Flue Lengths			Height Of Flue Only		Number TF-10 Flue Lengths		
Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"
10½"	0' 10½"	1			242¾"	20' 2¾"		1	7	476¼"	39' 8¼"	1	1	13	711¾"	59' 3¾"	2		20
18½"	1' 4½"		1		245¾"	20' 5¾"	2		6	483¼"	40' 3¼"			14	717¾"	59' 9¾"	1	1	20
21¾"	1' 9¾"	2			252¾"	21' 0¾"	1	1	7	486¾"	40' 6¾"	2	1	13	725¼"	60' 5¼"			21
27¾"	2' 3¾"	1	1		256¾"	21' 4¾"			7	494¼"	41' 2¼"	1		14	728¼"	60' 8¼"	2	1	20
33¾"	2' 9¾"	2			263¾"	21' 11¾"	2	1	7	500¼"	41' 8¼"		1	14	735¾"	61' 3¾"	1		21
34½"	2' 10½"			1	269¼"	22' 5¼"	1		7	504¾"	42' 0¾"	2		14	741¾"	61' 9¾"		1	21
38¾"	3' 2¾"	2			276¾"	23' 0¾"		1	8	510¾"	42' 6¾"	1	1	14	745¼"	62' 2¼"	2		21
43¾"	3' 7¾"	1	2		279¾"	23' 3¾"	2		7	518¼"	43' 2¼"			15	752¼"	62' 8¼"	1	1	21
51¼"	4' 3¼"			1	287¼"	23' 11¼"	1		8	521¼"	43' 5¼"	2	1	14	759¾"	63' 3¾"			22
56¾"	4' 8¾"	2			293¾"	24' 5¾"		1	8	528¾"	44' 0¾"	1		15	762¼"	63' 6¼"	2	1	21
62¼"	5' 2¼"	1	1		297¾"	24' 9¾"	2		8	534¼"	44' 6¼"		1	15	770¼"	64' 2¼"	1		22
68¼"	5' 8¼"		2		303¾"	25' 3¾"		1	8	539¼"	44' 11¼"	2		15	776¼"	64' 8¼"		1	22
69¾"	5' 9¾"			2	311¼"	25' 11¼"			9	545¼"	45' 5¼"	1	1	15	780¾"	65' 0¾"	2		22
80¼"	6' 8¼"	1		2	314¼"	26' 2¼"	2	1	8	552¾"	46' 0¾"			16	786¼"	65' 6¼"	1	1	22
86¼"	7' 2¼"		1	2	321¾"	26' 9¾"	1		9	555¾"	46' 3¾"	2	1	15	794¼"	66' 2¼"			23
90¾"	7' 6¾"	2		2	327¼"	27' 3¼"		1	9	563¼"	46' 11¼"	1		16	797¼"	66' 5¼"	2	1	22
96¼"	8' 0¼"	1	1	2	332¾"	27' 8¾"	2		9	569¼"	47' 5¼"		1	16	804¾"	67' 0¾"	1		23
103¾"	8' 7¾"			3	338¼"	28' 2¼"	1	1	9	573¾"	47' 9¾"	2		16	810¼"	67' 6¼"		1	23
107¾"	8' 11¾"	2	1	2	345¼"	28' 9¼"			10	579¾"	48' 3¾"	1	1	16	815¼"	67' 11¼"	2		23
114¾"	9' 6¾"	1		3	348¾"	29' 0¾"	2	1	9	587¼"	48' 11¼"			17	821¼"	68' 5¼"	1	1	23
120¾"	10' 0¾"		1	3	356¼"	29' 8¼"	1		10	590¼"	49' 2¼"	2	1	16	828¾"	69' 0¾"			24
124¼"	10' 4¼"	2		3	362¼"	30' 2¼"		1	10	597¾"	49' 9¾"	1		17	831¾"	69' 3¾"	2	1	23
130¾"	10' 10¾"	1	1	3	366¼"	30' 6¼"	2		10	603¾"	50' 3¾"		1	17	839¼"	69' 11¼"	1		24
138¾"	11' 6¾"			4	372¾"	31' 0¾"		1	10	608¼"	50' 8¼"	2		17	845¼"	70' 5¼"		1	24
141¾"	11' 9¾"	2	1	3	380¼"	31' 8¼"			11	614¼"	51' 2¼"		1	17	849¾"	70' 9¾"	2		24
149¼"	12' 5¼"	1		4	382¾"	31' 10¾"	2	1	10	621¾"	51' 9¾"			18	855¾"	71' 3¾"	1	1	24
155¼"	12' 11¼"		1	4	390¾"	32' 6¾"			11	624¾"	52' 0¾"	2	1	17	863¼"	71' 11¼"			25
159¾"	13' 3¾"	2		4	396¾"	33' 0¾"		1	11	632¼"	52' 8¼"			18	866¼"	72' 2¼"	2	1	24
165¼"	13' 9¼"	1	1	4	401¼"	33' 5¼"	2		11	638¼"	53' 2¼"		1	18	873¾"	72' 9¾"			25
173¼"	14' 5¼"			5	407¾"	33' 11¾"	1	1	11	642¾"	53' 6¾"	2		18	879¾"	73' 3¾"		1	25
176¾"	14' 8¾"	2	1	4	414¾"	34' 6¾"			12	648¾"	54' 0¾"	1		18	884¼"	73' 8¼"	2		25
183¾"	15' 3¾"	1		5	417¾"	34' 9¾"	2	1	11	656¼"	54' 8¼"		1	19	890¼"	74' 2¼"	1	1	25
189¾"	15' 9¾"		1	5	425¼"	35' 5¼"			12	659¼"	54' 11¼"	2	1	18	897¾"	74' 9¾"			26
194¼"	16' 2¼"	2		5	431¼"	35' 11¼"		1	12	666¾"	55' 6¾"	1		19	900¾"	75' 0¾"	2	1	25
200¼"	16' 8¼"	1	1	5	435¾"	36' 3¾"	2		12	672¼"	56' 0¼"		1	19	908¼"	75' 8¼"	1		26
207¾"	17' 3¾"			6	441¾"	36' 9¾"	1	1	12	677¼"	56' 4¼"	2		19	914¼"	76' 2¼"		1	26
210¾"	17' 6¾"	2	1	5	449¼"	37' 5¼"			13	683¼"	56' 10¼"	1	1	19	918¼"	76' 6¼"	2		26
218¼"	18' 2¼"	1		6	452¾"	37' 8¾"	2	1	12	690¾"	57' 6¾"			20					
224¼"	18' 8¼"		1	6	459¾"	38' 3¾"	1		13	693¾"	57' 9¾"	2	1	19					
228¾"	19' 0¾"	2		6	465¾"	38' 9¾"		1	13	701¼"	58' 5¼"	1		20					
234¾"	19' 6¾"	1	1	6	470¼"	39' 2¼"	2		13	707¼"	58' 11¼"		1	20					

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

TF10 OFFSET ELEVATION CHART

A Offset (Inches)	B Height (Inches)	A Offset (mm)	B Height (mm)	TF10-30 10" Offset Elbow	TF10-E30 10" Return Elbow	10-S4 10" Stabilizer	TF10 12" Flue Length	TF10 18" Flue Length	TF10 36" Flue Length
4	15	102	381	1	1		—	—	—
9 1/4	24	235	610	1	1		1	—	—
12 1/4	29 1/4	311	743	1	1		—	1	—
14 1/2	33 1/4	368	845	1	1	—	2		—
17 1/2	38 1/2	445	978	1	1	—	1	1	—
20 1/2	43 1/2	521	1105	1	1	—	—	2	—
21 1/4	45	540	1143	1	1	—		—	1
22 1/8	47 1/2	578	1207	1	1	—	2	1	—
25 1/8	52 1/8	654	1340	1	1	—	1	2	—
26 1/2	54	673	1372	1	1		1	—	1
28 3/4	58	730	1473	1	1	—	—	3	—
29 1/2	59 3/4	749	1505	1	1	—	—	1	1
31 3/4	63	806	1600	1	1	—	2	—	1
34 1/4	66 1/4	883	1734	1	1		1	1	1
37 1/4	73 1/4	959	1861	1	1	—	—	2	1
38 1/2	74 1/2	978	1899	1	1	—	—		2
40	77 1/4	1016	1962	1	1	—	2	1	1
42 1/4	81 1/4	1073	2064	1	1		1	4	—
43 3/4	83 3/4	1111	2127	1	1	—	1	—	2
46	87 1/4	1168	2229	1	1	—	—	3	1
46 3/4	89	1187	2261	1	1		—	1	2
49	93	1245	2362	1	1		2	—	2
52	98 1/4	1321	2496	1	1	—	1	1	2
55	103 1/4	1397	2623	1	1	—	—	2	2
55 3/4	104 1/8	1416	2661	1	1	—	—	1	3
57 1/4	107 1/8	1454	2724	1	1		2	1	2
61	113 3/8	1549	2889	1	1	—	1	—	3
62 1/4	116	1581	2946	1	1	1	1	—	3
65 1/4	121	1657	3073	1	1	1	—	1	3
67 1/2	124 1/8	1715	3169	1	1	1	2	—	3
70 1/2	130	1791	3302	1	1	1	1	1	3
73 1/2	135 1/4	1867	3435	1	1	1	—	2	3
75 3/4	139 1/4	1924	3537	1	1	1	2	—	3
79 1/2	145 1/2	2019	3696	1	1	1	1	—	4
82 1/8	150 3/8	2089	3829	1	1	1	—	1	4
84 3/4	154 1/8	2153	3931	1	1	1	2	—	4
87 3/4	159 3/8	2229	4058	1	1	1	1	1	4
90 1/8	165	2305	4191	1	1	1	—	2	4
93	169	2362	4293	1	1	1	2	1	4
96 3/4	175 1/2	2457	4458	1	1	1	1	—	5
99 3/4	180 1/2	2534	4585	1	1	1	—	1	5
102	184 1/2	2591	4686	1	1	1	2	—	5
105	189 3/4	2667	4820	1	1	1	1	1	5
108	195	2743	4953	1	1	1	—	2	5
110 3/4	198 3/4	2800	5048	1	1	1	2	1	5
114	203 3/4	2896	5163	1	1	1	1	—	6
117	210 1/8	2972	5347	1	1	1	—	1	6
119 1/4	214 1/2	3029	5448	1	1	1	2	—	6

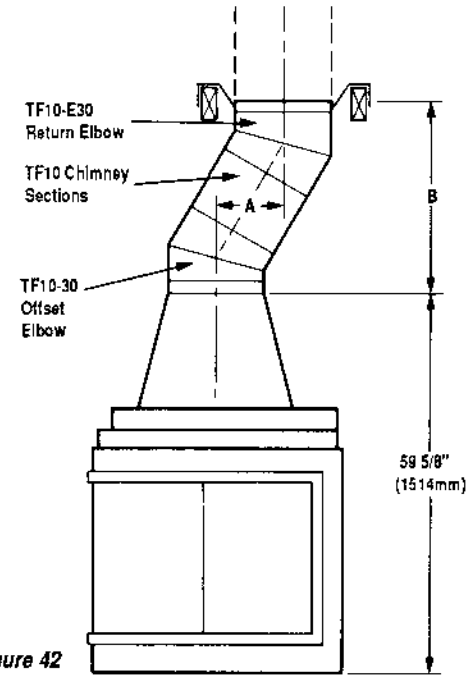


Figure 42

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

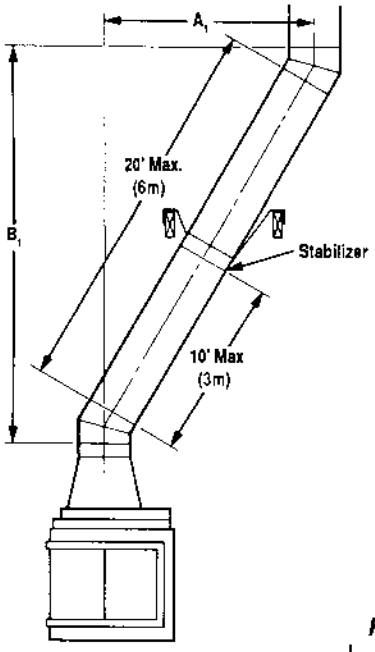


Figure 43

TO INSTALL OFFSETS

First, review Chimney Offset Elevation Chart and *Figure 42* on page 13 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 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.*

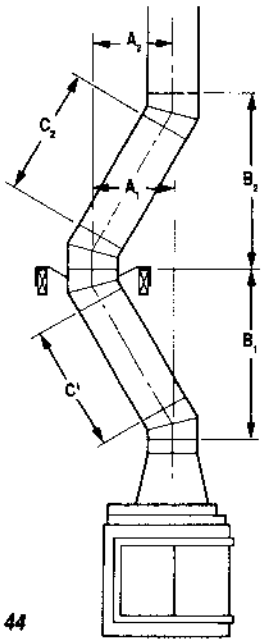


Figure 44

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 locks OVER the preceding outer section of chimney. Again, check outer section by pulling up slightly to ensure proper connection is made.

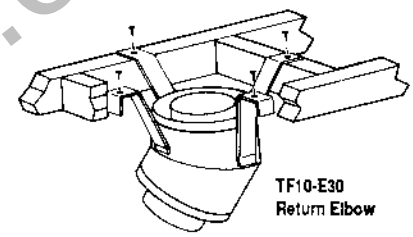


Figure 46

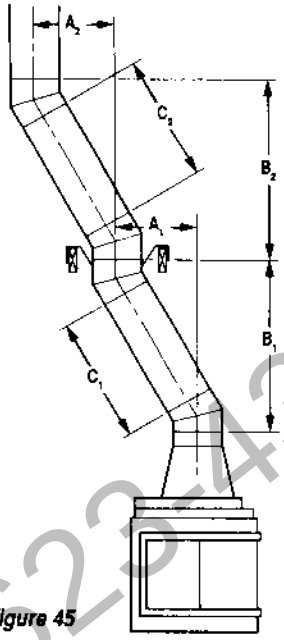


Figure 45

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.

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

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

TF10-OR15 OFFSET/RETURN ELBOWS

Refer to installation instructions packed with TF10-OR15 for proper usage.

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

CHIMNEY OFFSET 30° THROUGH FLOOR OR CEILING

It may be necessary to assemble the chimney at 30° when passing through the ceiling area. Use appropriate 30° angled firestop spacer as shown in *Figure 47 and 48*. Support the chimney at floor or ceiling penetration with a stabilizer if distance of chimney below ceiling is 10' (3m) or more. Maintain 1" (25mm) ***(See **Note)** minimum air space to combustibles from chimney sections.

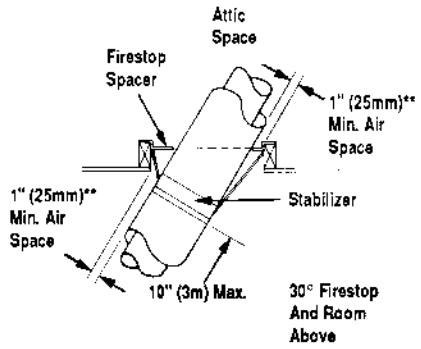


Figure 47

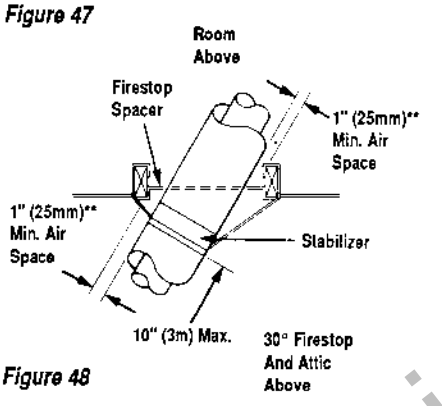


Figure 48

GLASS DOORS

Your Peninsula fireplace is equipped with specially designed glass doors which have been pre-installed at the factory. Use of other non-listed glass door on this fireplace may constitute a potential fire hazard and is not recommended.

Note: The door handles will be positioned at the top of the door assembly. The door handles may be relocated at the bottom by removing and reversing the door frames from one side to the other. If desired, any style door handles may be substituted for the factory supplied handles as long as the spacing between the attachment lugs is 3 1/2" (89mm).

***Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.**

CAUTION: DO NOT ATTEMPT TO TOUCH THE DOORS WITH YOUR HANDS WHILE THE FIREPLACE IS IN USE. ALWAYS USE DOOR HANDLES. DOORS WILL BECOME VERY HOT WHEN FIREPLACE IS IN USE.

***Note:** Design characteristics of a dual opening fireplace (whether masonry or factory-built) may cause it to not draft properly and smoke. For this reason, glass doors are included standard on model PF-9000.*

WARNING: FIREPLACES EQUIPPED WITH DOORS SHOULD BE OPERATED ONLY WITH THE DOORS FULLY CLOSED.

REPLACEMENT GLASS

The doors do not need to be removed from the fireplace. The closed end panel, however, does need to be removed to replace the glass.

To remove the glass from the doors, remove the two (2) screws from the door stile, remove the stile and slide out all old glass pieces and slide new glass pane into the frame. Reassemble the end stile with the two screws previously removed (*Figure 49*).

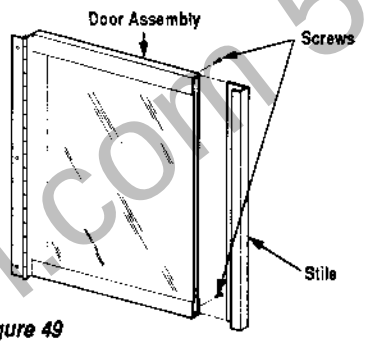


Figure 49

To remove the end panel for glass replacement, remove the two (2) screws from both sides of the end stiles. Lift the entire end panel up and pull away from the fireplace to disengage from the stile pins. Remove the two (2) screws from the end stile, remove the stile and all old glass pieces and slide new glass panel into frame. Reverse this procedure for re-installation of the end panel assembly (*Figure 50*).

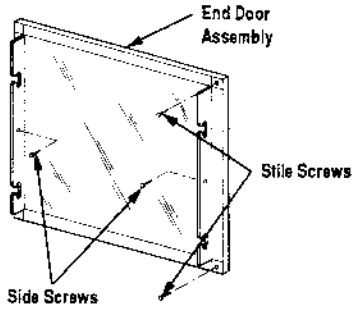


Figure 50

ACCESSORIES

Optional Combustion Air Kit

Use combustion air kit, Model CAK-4, with this fireplace system. Refer to installation instructions packed with the CAK-4 air kit for specific information. Outside air drawn into the fireplace supplies air to the fire for combustion. The outside air kit must be installed before the fireplace is framed and enclosed in the finished walls.

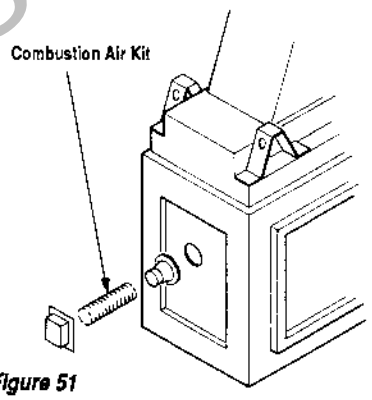


Figure 51

There is a one hand operated shut off valve located in the enclosed end of the fireplace opening behind the screens. The lever may be operated from either the left or right side. To open, pull the lever all the way out. To close, push the lever all the way in (*Figure 52*). The combustion air damper should be fully open when the fireplace is in operation and fully closed when the fireplace is not in use to prevent outside air from entering your home.

If additional length of duct is necessary, purchase locally available U.L. Class 1 metallic ducting. The duct may extend up to 50' (15.24m) in any direction.

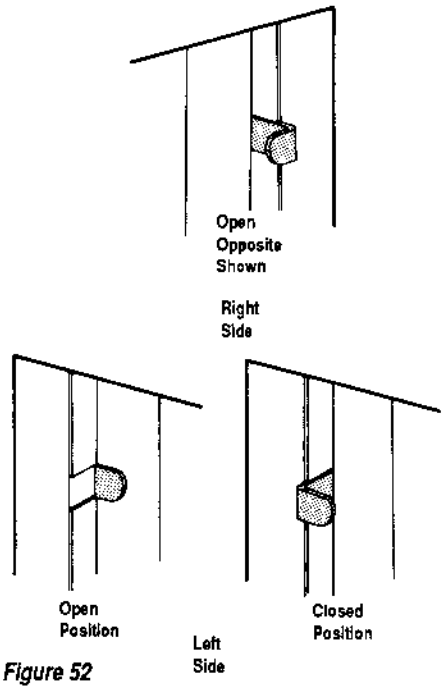


Figure 52

Outside combustion air 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 crawlspace not considered part of the living area of the home.

CAUTION: NEVER LOCATE INLET IN GARAGE OR ANY AREA WHERE THERE IS ANOTHER FUEL BURNING APPLIANCE OR PRODUCTS EMITTING COMBUSTIBLE GASES SUCH AS PAINT, GASOLINE, ETC. IN COLD CLIMATES IT IS RECOMMENDED THE COMBUSTION AIR DUCTS BE INSULATED.

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

CAUTION: IN NO EVENT MAY THE TOTAL DUCT FOR BRINGING IN OUTSIDE AIR EXCEED 50 FEET (15.2M).

GAS LINE

Superior's PF-9000 fireplace has been approved to accept a 1/2" (13 mm) gas line for an approved gas appliance. Always have the appliance installed by a qualified, licensed plumber in accordance with all local building codes.

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. Remove the gas knockout located at the center of the rear panel (approximately 3" (76 mm) above the rear refractory bottom). **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.

Install only a 1/2" (13mm) black iron pipe through fireplace wall for connection to a decorative gas appliance inside the firebox. Outside, the iron pipe 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.**

IMPORTANT: RE-PACK INSULATION MATERIAL IN SQUARE HOLE AROUND GAS LINE; INTERIOR AND EXTERIOR, TO SEAL.

In Canada, this provision is intended for connection to a decorative gas appliance only in accordance with the latest National Gas Installation Code, CAN 1-B149.1. This complies with the ULC S610 standard.

For all areas other than Canada, this provision is intended only 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. Install in accordance with the National Fuel Gas Code, ANSI Z223.1. This complies with the revised UL 127 standard.

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

COLD CLIMATE INSULATION

If you live in a cold climate, it is especially important to seal all cracks around fireplace with non-combustible material and wherever cold air could enter the room. Surround material must be caulked where it meets the black metal facing of the fireplace to avoid cold air intrusion. Use non-combustible caulking material only on fireplace facing to seal.

Also, the outside air inlet duct should be wrapped with non-combustible insulation to minimize the formation of condensation. Do not place insulation materials directly against the chimney sections.

***Note:** 1" (25mm) **(See **Note) air space must be preserved for all combustible materials extending for any continuous length adjacent to the chimney.*

FIREPLACE FINISHES, HEARTH EXTENSIONS, WALL SHIELDS

Framing

It is sometimes best to frame your Peninsula after it is positioned and the chimney is installed. Frame chimney and fireplace enclosure with 2 x 4's (51 x 102 mm) (or heavier) lumber.

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

The PF-9000 may sit directly on a combustible floor. A 1" (25mm)***(See **Note)** air space is required between combustibles and the chimney. In Canada, the minimum height for a combustible mantel is 14" (356mm) above the opening. *Figure 53* shows typical Canadian installation. In installations other than Canada, combustible mantels and trim may be installed 12" above the opening as per NFPA 211, Section 7-3.3.3. and *Figure 54*. If a mantel is of a non-combustible material, it is exempt from the requirements as long as it does not interfere with the operation of glass doors.

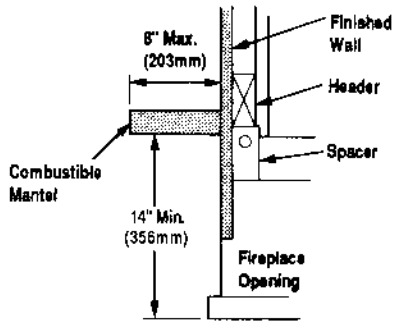


Figure 53 Canada Installations

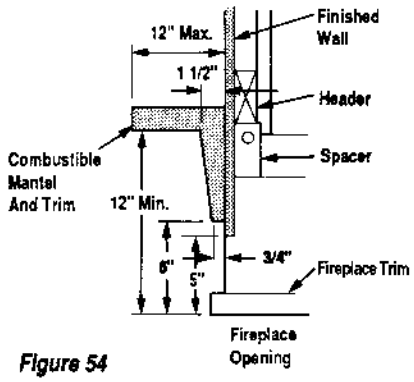


Figure 54

Typical Installation
(Refer To *Figure 53* For Canada)

*****Note: 2" (51mm) air space to combustibles required when installing Model PF-9000 in Canada.***

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

HEARTH EXTENSIONS AND WALL SHIELDS

A hearth extension must be installed with all fireplaces. Its purpose is twofold. It protects a combustible floor in front of the fireplace from both radiant heat and sparks and it distinguishes the prescribed hearth extension area from other non protected surfaces. The hearth extension must extend beyond the front and both sides of the Peninsula. You may use the metal hearth extension manufactured by Superior, Model HE-36, or you may use a durable non-combustible material having an equal or greater insulating value of k=.84BTU-IN/FT²HR-F° or a thermal resistance that equals or exceeds r=1.19 HR-F°-FT²/BTU-IN. A minimum 3/8" thick non-combustible material is all that is required over a non-combustible or slab floor.

***Note:** Any 3/8" non-combustible material whose k value is less than .84 or whose r value is more than 1.19 is acceptable.*

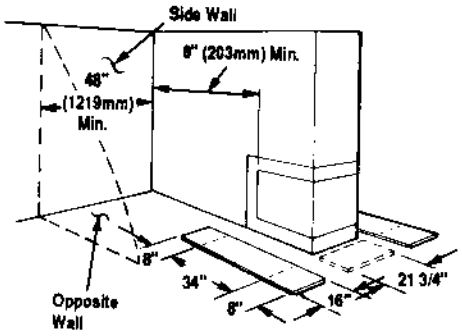


Figure 55

METHODS OF DETERMINING HEARTH EXTENSION EQUIVALENTS

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

T_M = Thickness of desired 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 with the PF-9000 fireplace. How thick must this material be?

Using the k formula:

$$\text{Desired Required Thickness} = \frac{\text{k value of desired material (per inch)}}{\text{k value of listed material (per inch)}} \times \text{Min. Thickness of Listed Material}$$

$$T_M \text{ (Inches)} = \frac{k_m \times T_L}{.84}$$

$$T_M \text{ (inches)} = \frac{0.43^* \times 3/8^{**}}{.84}$$

Answer using k = .51 x 3/8" = 0.19 or rounded to the next highest thickness available = 1/4".

Using the r formula:

$$\text{Desired Required Thickness} = \frac{\text{r value of listed material (per inch)}}{\text{r value of desired material (per inch)}} \times \text{Min. Thickness of Listed Material}$$

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

$$T_M \text{ (inches)} = \frac{1.19 \times 3/8^{**}}{2.33^*}$$

Answer using r =0.51 x 3/8" =0.19 or rounded to the next highest thickness available = 1/4"

* value taken from chart
** minimum thickness per listing

ALTERNATIVE HEARTH EXTENSION MATERIALS

Listed Material	Values k	Values r	Min. Thick T_L
Millboard	.84	1.19	3/8"
Alternative Materials	**Values k**	**Values r**	**Min. Thick T_M**
Common brick	5.00	0.20	2 1/4"
Cement mortar	5.00	0.20	2 1/4"
Ceramic tile	12.5	0.08	5 5/8"
Marble	11.0	0.09	5"
Micore CV230 (U.S. Gypsum)	0.43	2.33	1/4"
Cerafoam 126 (Johns-Manville)	0.27	3.70	1/8"

At times it is important to know what combinations 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.

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

Example: Superior required that the "R value" for a suitable hearth extension used with the ST-3840A be equal to or greater than "R" = r x T_L = 1.19 x 3/8" = .446. It is desired to elevate a marble hearth extension to a level of 5 inches or more above the floor surface. What combination of non-combustible materials can be used to accomplish this?

If we use common brick so that the 3 1/2" dimension is the height, "R" for the common brick becomes:
"$R"_M$ = r x T_M = .2 x 3 1/2" = .70

If we use 1/2" of mortar to set the brick, "R" for the mortar becomes:

"$R"_M$ = r x T_M = .2 x 1/2" = .10

When we use 3/4" marble set in 1/2" mortar, "R" for the marble and mortar becomes:

"$R"_M$ = r x T_M = .09 x 3/4" = .068
"$R"_M$ = r x T_M = .2 x 1/2" = .10

Adding up all "R Values" we get:

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

This would be an acceptable combination of material for the hearth extension since the total calculated "R Value" of the materials used exceeds the required "R value" of .446

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

WARNING: FIREPLACE MUST BE RAISED IF HEIGHT OF HEARTH EXTENSION EXCEEDS 4" (102MM) ABOVE THE BOTTOM OF THE FIREPLACE (*FIGURE 56*).

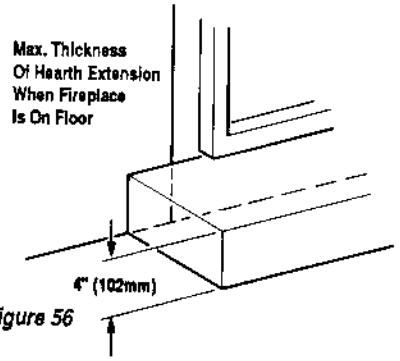


Figure 56

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

NOTE: DIAGRAMS AND ILLUSTRATIONS NOT TO SCALE

FINISH TO YOUR TASTE

There are a wide variety of "finished looks" for your Peninsula; from formal wall decor with elaborate mantels to rustic wood paneling to warm brick facings.

Only non-combustible materials like stone, tile, brick, etc. may overlap the black front facing but must not interfere with the operation of the glass doors. Seal all joints between the black facing and wall surrounds to prevent cold air intrusion. Use non-combustible caulking material only to seal the black metal facing to the surround material on the finished wall.

Important: Protect the solid polished brass trim when applying acidic or alkaline based products used in drywall, tile and masonry application. These acidic/alkaline products will remove the protective coating on the solid brass trim; causing corrosion and/or tarnish.

Combustibles may also project beyond the sides of the fireplace opening as long as they are kept within the shaded areas as illustrated in *Figure 57*.

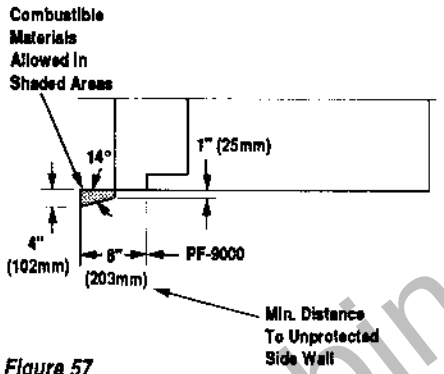


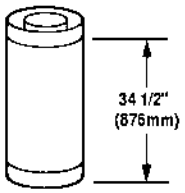
Figure 57

SUPERIOR ACCESSORY PARTS COMPONENTS LIST FOR MODEL PF-9000

The following accessory parts and components are to be used only with your Superior fireplace system. Separate installation instructions are packaged with all combustion air kits and chimney terminations.

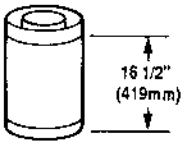
If you encounter any problems or have questions concerning the installation or application of this system, please contact your distributor or:

SUPERIOR FIREPLACE COMPANY
4325 Artesia Ave
Fullerton, California 92633
714-521-7302



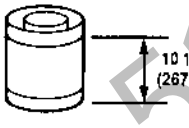
O.D. = 15" (381mm)
I.D. = 10" (254mm)

Chimney Section	TF10-36 TF10-36C



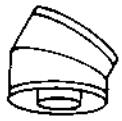
O.D. = 15" (381mm)
I.D. = 10" (254mm)

Chimney Section	TF10-18 TF10-18C



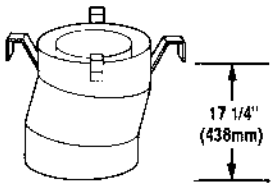
O.D. = 15" (381mm)
I.D. = 10" (254mm)

Chimney Section	TF10-12



Offset Elbow 30°	TF10-30

Return Elbow 30°	TF10-E30



Offset/Return Elbow (15°)	TF10-OR15

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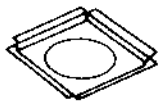
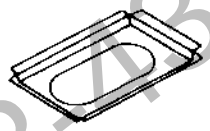
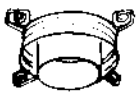


Firestop Spacer (Flat) Firestop Spacer (Flat) Canada	10FS 10FS-2



Firestop Spacer (30°) Firestop Spacer (30°) Canada	10FS30 10FS30-2

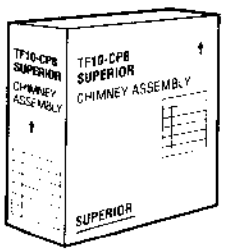


Stabilizer	10-S4

Flashing	10F6 10F12

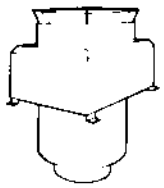
Storm Collar	10SC

Locking Band	10LB

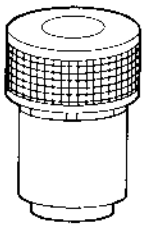


Contents:
4 - TF10-36
1 - 10FS
1 - 10F6
1 - TF10-CTD

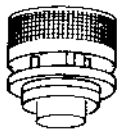
Chimney Pack Conventional — TF10-CP8



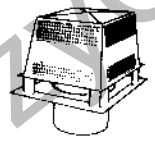
Chase Termination — TF10-CT2



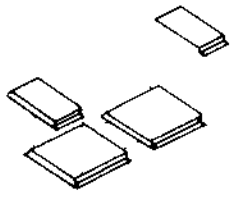
Round Chase Termination — TF10-CTDT



Round Termination — TF10-CTD



Chase Termination — TF10-CT1



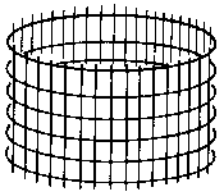
Hearth Extension — HE-36

Refractory Tint Kit — RTK

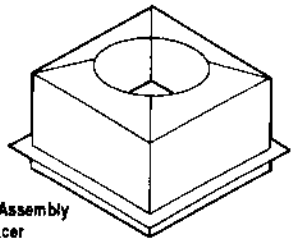
Chimney Air Kit — CAK-4

Refractory Patch Kit — RPK

Combustion Air Kit — CAK-4



Spark Arrester (CT2 Termination) — SA-2



Attic Shield Assembly Firestop Spacer (Canada Only) — TF10-FSAS

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