

RECEIVED

NOV 30 1989

CONSTRUCTION PERMIT
APPLICATION

Page 1

DIV. OF INSPECTION
TOWNSHIP OF BRICK

I. IDENTIFICATION

1. Proposed Work at: 374-16th AVE BRICK, N.J.
2. Owner Name: ALICE D. & JOSEPH J. HICCINS Tel. ()
- Address: 374-16th AVE BRICK, N.J.
3. Principal Contractor: SAME-AS-ABOVE
- Address: SAME-AS-ABOVE
- Lic. No. or Builder Reg. No. Federal Emp. No.
4. Architect or Engineer: Tel. ()
- Address
5. Responsible Person in Charge of Work Tel. ()

II. PROPOSED WORK

A. TYPE OF WORK

1. ☐ Minor Work (Single Trade)
2. ☐ Small Job (\$5,000 and no Prior Approvals)
Complete only II.B., III and IV.A. and Page 2
3. ☐ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☐ Repair, Replacement
7. ☐ Demolition
8. ☒ Other: Zero Clearance fireplace

B. CATEGORIES OF WORK

- | Permit/Category | Estimated |
|---|-----------------|
| 1. ☐ Building/Structural | \$ <u>2,000</u> |
| 2. ☐ Plumbing | |
| 3. ☐ Electrical | |
| 4. ☐ Fire Protection | |
| 5. ☐ Other | |
| 6. ☐ Other | |

TOTAL COST \$ 2,000 ✓

C. DO YOU WANT:

1. ☐ Partial Releases 2. ☐ Prototype Processing

D. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Dumbwaiters
2. ☐ High-Pressure Boilers
3. ☐ Refrigeration Systems
4. ☐ Pressure Vessels
5. ☐ Hazardous Uses/Places of Assembly
6. ☐ Cross-connections/Backflow Preventors
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells

III. DESCRIPTION OF BUILDING USE (USE GROUPS)

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
HMD Reg. No.:
3. ☐ Two Family (R-3b)
4. ☒ One-Family (R-3a)

If new construction, enter no. of dwelling units _____

If other than new construction, enter no. of dwelling units: _____

Before Construction: _____

After Construction: _____

Net Gain (or loss): _____

B. NON-RESIDENTIAL

- | | |
|---|---|
| 5. ☐ Theatres with Stage (A-1-A) | 16. ☐ Institutional Detention Center (I-1) |
| 6. ☐ Movie Theatres (A-1-B) | 17. ☐ Hospitals, Infirmarys (I-2) |
| 7. ☐ Night Clubs (A-2) | 18. ☐ Group Homes (I-3) |
| 8. ☐ Restaurants, Libraries, Museums (A-3) | 19. ☐ Mercantile (M) |
| 9. ☐ Religious Assembly (A-4) | 20. ☐ Moderate-Hazard Warehouse (S-1) |
| 10. ☐ Outdoor Assembly (A-5) | 21. ☐ Low-Hazard Warehouse (S-2) |
| 11. ☐ Business (B) | 22. ☐ Temporary, Misc. (U) |
| 12. ☐ Educational (E) | 23. ☐ Other |
| 13. ☐ Moderate-Hazard Factory (F-1) | |
| 14. ☐ Low-Hazard Factory (F-2) | |
| 15. ☐ High-Hazard (H) | |

State Specific Use: _____

If Change in Use Group, Indicate Former: _____

IV. BUILDING CHARACTERISTICS

A. OWNERSHIP

1. ☐ Private (Individual, Corp., Non-profit Inst., Etc.)
2. ☐ Public (State, County or Local Govt.)

B. HEATING FUEL

- | Principal | Secondary | Type |
|-----------------------------|--------------------------|--------------------------|
| 3. ☐ | ☐ | Gas |
| 4. ☐ | ☐ | Oil |
| 5. ☐ | ☐ | Electric |
| 6. ☐ | ☐ | Solid (Wood, Coal, Etc.) |
| 7. ☐ | ☐ | Propane |
| 8. ☐ | ☐ | Solar |
| 9. ☐ | ☐ | Other |

C. TYPE OF SEWAGE DISPOSAL

10. ☐ Public or Private Company
11. ☐ Private (Septic Tank, Etc.)

D. TYPE OF WATER SUPPLY

12. ☐ Public or Private Company
13. ☐ Private (Well, Etc.)

E. BUILDING CHARACTERISTICS

14. No. of Stories _____
15. Height of Structure _____ Ft.
16. Area—Largest Floor _____ Sq. Ft.
17. Bldg. Area—All Fls. _____ Sq. Ft.
18. Volume of Structure _____ Cu. Ft.
19. Total Land Area Disturbed _____ Sq. Ft.

LDS BR 10514933

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION

I hereby certify that I am the owner of the property listed on Page 1. This dwelling is to be occupied by myself and is not to be used for any purpose, other than single family residential use.

- A. ☒ I further certify that I prepared the plans submitted. This statement is made in accordance with the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)vii.
- B. ☒ I further certify that I will perform the work below.
- B1. ☒ Building B2. ☐ Electrical B3. ☐ Plumbing
- C. ☐ I further certify that a new home will be constructed on this property, for my use and occupancy. I attest that all design, construction, plumbing, or electrical work will be done by me or by subcontractors under my supervision, in accordance with all applicable laws; and further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.A.C. 46:3B-1 et. seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.
- D. ☒ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

SIGNATURE

Alice D. Higgins

DATE

12/1/89

II. AGENT SECTION

I hereby certify that the work is authorized by the owner of record and I have been authorized by the owner to make this application as his agent.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

AGENT NAME

TEL. ()

ADDRESS

SIGNATURE

5937

[illegible]

SUBCODES AND SPECIAL REGULATIONS APPLICABLE:

EDITION OF CODE		EDITION OF CODE	
☐ One and Two Family Dwellings	_____	☐ Mechanical	_____
☐ Building	_____	☐ Energy	_____
☐ Electrical	_____	☐ Barrier Free	_____
☐ Plumbing	_____	☐ Other	_____
		☐ Flood Hazard	_____
		☐ As Built Elevation Certification	_____
		☐ Other	_____

PERMIT CONTROL

I. PLAN REVIEW STATUS

Updated at time of receipt of drawings and when plans are approved.

- ☐ PARTIAL RELEASES
☐ PROTOTYPE PLAN - FILE LOCATION AND NO. _____

Plan Review Required	Type of Work	Plans Received By Date	Receiver	Approval Date	Reviewer	Comments
☒	BUILDING	12/1/89	✓	12-1-89	JC	
	Footings/Foundations					
	Framing					
	Architectural					
	Other _____					
☐	PLUMBING					
☐	ELECTRICAL					
☐	FIRE PROTECTION			12-1-89	JC	
☐	OTHER _____					

II. PERMIT/INSPECTION STATUS

Updated at time of permit and after final approvals.

Issue Date	Category	Revisions	Final Inspection	Comments
	ALL CONSTRUCTION			
	BUILDING			
	Footings/Foundations			
	Framing			
	Architectural			
	Other _____			
	PLUMBING			
	ELECTRICAL			
	FIRE PROTECTION			
	OTHER _____			

III. CERTIFICATES ISSUED

CERTIFICATES TO BE ISSUED:	Date Issued
☐ Temporary Certificate of Occupancy Date Expired _____	_____
☐ Temporary Certificate of Occupancy Date Expired _____	_____
☐ Certificate of Occupancy No. _____	_____
☐ Certificate of Continued Occupancy No. _____	_____
☐ Certificate of Approval No. _____	_____
☐ None	_____

IV. ON-GOING INSPECTIONS

On-going Inspections Required (See Page 1, II.D.)	Date Posted to Log and Tickler
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

V. FEE SUMMARY

Initial fee collection recorded in A; all others in section B.

A. COLLECTED AT TIME OF CONSTRUCTION PERMIT ISSUANCE

	AMOUNT
BUILDING	\$ 15.-
PLUMBING	_____
ELECTRICAL	_____
FIRE PROTECTION	30.-
OTHER <i>Five place for Feb</i>	_____
SUBTOTAL	\$ 45.-
- LESS: 20% of subtotal (when plan review performed by state agency).	(5.-)
D.C.A. TRAINING FEE .0006 x _____	= _____
CERTIFICATE OF OCCUPANCY	20.-
OTHER _____	_____
OTHER _____	_____
TOTAL COLLECTED WHEN PERMIT ISSUED	\$ 70.-
DATE _____ Collected By _____	

B. COLLECTED AFTER CONSTRUCTION PERMIT ISSUANCE

Date	Collected By	AMOUNT
CERTIFICATE OF OCCUPANCY	_____	_____
OTHER	_____	_____
OTHER	_____	_____
- LESS: Refunds	_____	(_____)
TOTAL COLLECTED AFTER PERMIT ISSUED		\$ _____

C. TOTAL CONSTRUCTION FEES COLLECTED

	AMOUNT
COLLECTED WITH PERMIT (VA)	\$ _____
COLLECTED AFTER PERMIT (VB)	_____
TOTAL	\$ _____



CONSTRUCTION PERMIT

Date Issued

12/6/89

Control #

Permit #

5937

IDENTIFICATION Block 1087.69 Lot 10Work Site Location 374 16th Ave

Contractor

Same

Owner in Fee

A & J Higgins

Address

Usane

Tele. ()

Lic. No. or Bldrs. Reg. No.

Exp. Date

0004

5937**

Federal Emp. No.

BLOCK

0.00

or Social Security No.

BLOCK

0.00

is hereby granted permission to perform the following work:

☒ BUILDING ☐ PLUMBING ☐ OTHER☐ ELECTRICAL ☒ FIRE PROTECTION

DESCRIPTION OF WORK:

Zero Clearance fireplace

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$

2000

CONSTRUCTION OFFICIAL

AJ Cerzo

U.C.C. Form F-170A

1 WHITE - OFFICE 2 CANARY - TAX ASSESSOR 3 PINK - JACKET 4 GOLD - APPLICANT

PAYMENTS (Office Use Only)		1087.69 #
Building	<u>15</u> LOT	0.00
Plumbing	<u>10</u> #	
Electrical	BUILDING	15.00
Fire Protection	<u>30</u> FIRE	30.00
Other	<u>210</u> 5 T / 0	20.00
Other	PLAN RWV	5.00
DCA Training Fee	TOTAL	70.00
Cert. of Occ.	<u>20</u> CASH	70.00
Other	CHANGE	0.00
Total	12/06/89 ND-8 0004A005	11:47
Check No.		
Cash	<u>X</u>	
Collected By:	<u>JA</u>	



BUILDING SUBCODE TECHNICAL SECTION



PERMIT NO.	5937
DATE ISSUED	12-6-89
REVISION DATE	
Block	087.69
Lot	10
Subdivision	

A. IDENTIFICATION

APPLICANT - Complete unshaded areas only

When changing contractors, notify this office

Owner

Wheeler & Joseph, Negro

Contractor

Tree Place Landscaped

Address

374-16 Oak Ave B

Address

18340 U.S. Rte 9

Tel.

212.54.0834

Address

Tree Place

Work Site Address *SPRUE AS HASBULE*

Lic. No.

Federal Emp. No.

CERTIFICATION IN LIEU OF OATH:

(Complete for Minor Work and Small Job Only)

I hereby certify that the proposed work is authorized by the owner of record and I have been authorized by the owner to make this application as his agent.

AGENT SIGNATURE

B. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Give detail description including materials used, dimensions, etc.

*Tree Clearance
Treeplace*

TYPE OF WORK:

☐ New Building

☐ Addition

☐ Alteration/Renovation

☐ Roofing

☐ Siding

☐ Other

☐ Demolition

☐ Miscellaneous

☐ Fence

☐ Sign

☐ Pool

☐ Elevator

☐ Other

Fee Basis

Fee

SUBTOTAL

Minimum Building
Fee (if applicable)

Total Building Fee

(Greater of Minimum
or Subtotal)

☐ See Plans

C. BUILDING CHARACTERISTICS

USE GROUP: Present Proposed

No. of Stories Total Building Area-All Floors Sq. Ft.

Height of Structure Ft. Volume of Structure Cu. Ft.

Area-Largest Floor Sq. Ft. Total Land Area Disturbed Sq. Ft.

Estimated Cost of Building Work: \$ *2,000*

D. COMMENTS

☐ Partial Releases ☐ Prototype Processing

PLAN REVIEW AND INSPECTION - BUILDING

DATE

JOB CONDITION/COMMENTS

10/10/90

Not ready

10/11

Pipe to close to RAFTERS W.S - 10-15-90 O.K.

10

Fire Grading:

Maximum Live Load:

Maximum Occupancy Load:

JOB SUMMARY

PLAN REVIEW

☐ No Plans Required

☒ All

☐ Footing/Foundation

☐ Frame

☐ Architectural

☐ Other

Date

Initials

12-1-89 JK

INSPECTIONS FINAL

☐ CO

☐ CCO

☐ CA

Date: _____

Inspected By: _____

INSPECTIONS

Type

☐ Footing/Foundation

☐ Slab

☒ Frame

☐ Architectural

☐ Insulation

☐ Finishes

☐ Energy

☐ Mechanical

☐ TCO

☐ Other

Failure Dates

Approval Date

10/10/90 JK

10/11/90

10-15-90



*The Symbol of
Excellence*

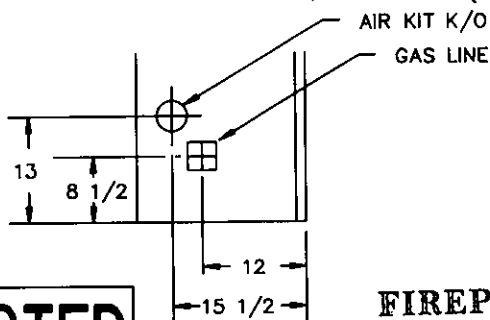
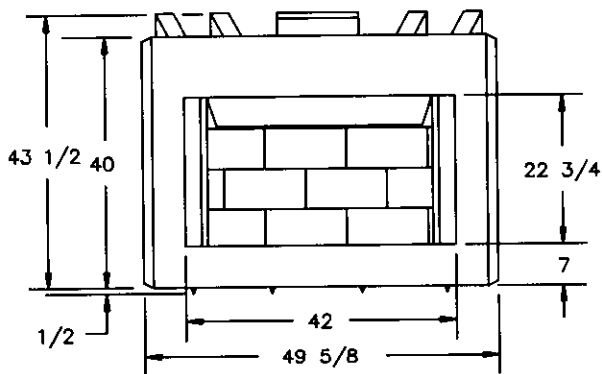
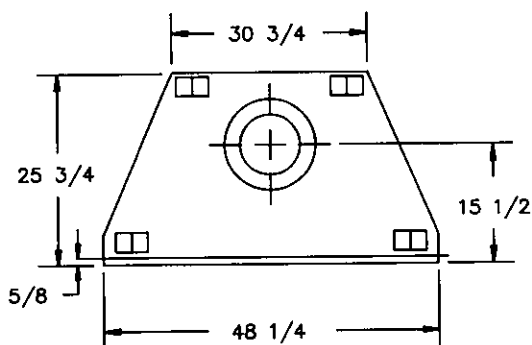
Fireplace Manufacturers Incorporated

LA FIAMA II 42GCII

INSTALLATION INSTRUCTIONS

SAVE THIS BOOK

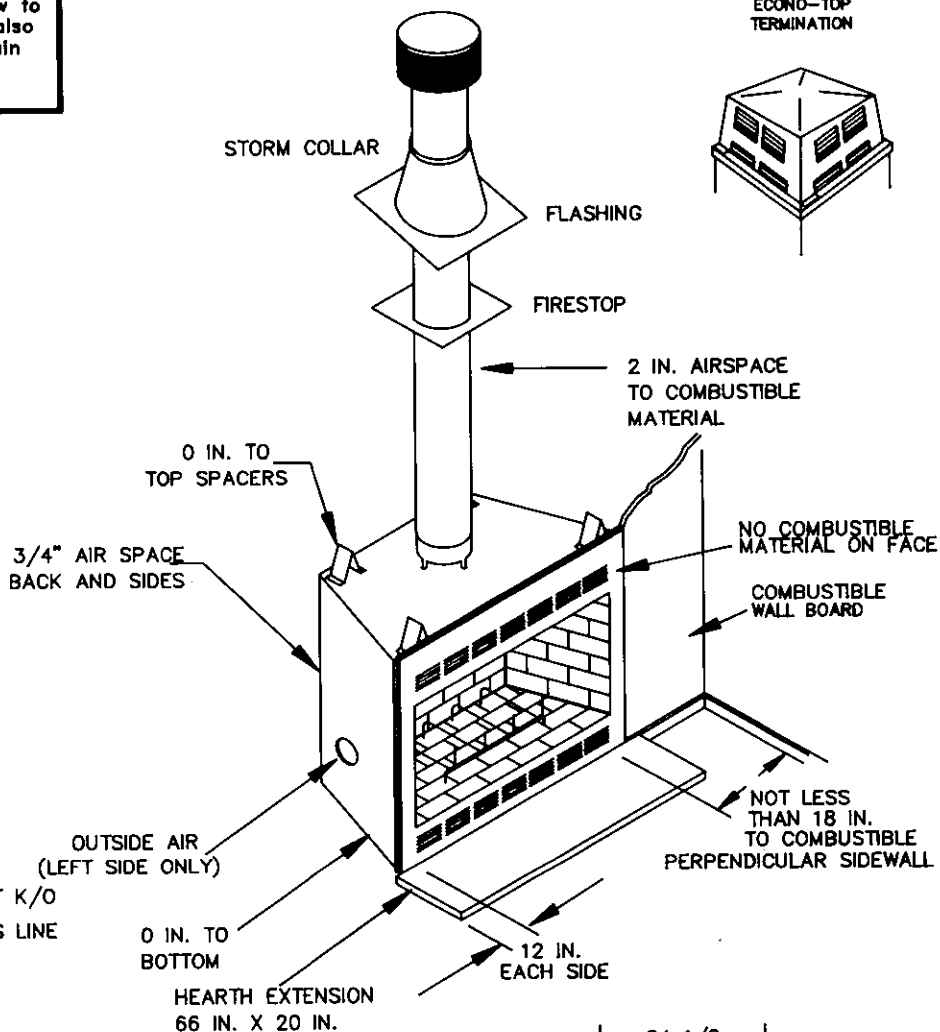
This book is valuable. In addition to telling you how to install and maintain your fireplace and chimney, it also contains the information that will enable you to obtain repair parts when needed. Keep it with your other important papers.



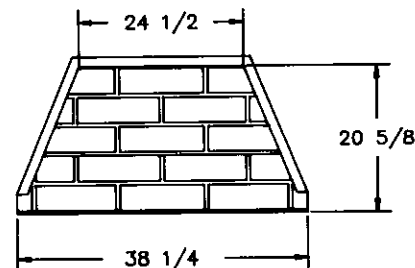
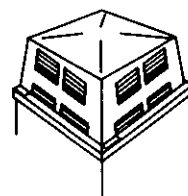
FIREPLACES UNLIMITED
1854 US ROUTE 9
TOMS RIVER, NJ 08753
201-244-1800

MANUFACTURED BY FIREPLACE MANUFACTURERS INC.
2701 SO. HARBOR BLVD., SANTA ANA, CA. 92704

ROUND TOP TERMINATION



ECONO-TOP TERMINATION



**WARNOCK HERSEY
LISTED**

INSTALLATION INSTRUCTIONS

INTRODUCTION

- Before beginning the installation of your fireplace, read these instructions through completely.
- These FMI components and fireplaces are safe when installed according to this Installation Manual. Unless you use FMI components which have been designed and tested for the fireplace system, you may cause a fire hazard.
- The FMI warranty will be voided by, and FMI disclaims any responsibility for the following actions:
 - a) Modification of the fireplace, components, doors, blower fans, air inlet system and damper control.
 - b) Use of any component part not manufactured or approved by FMI in combination with a FMI fireplace system.

WARNING: DO NOT INSTALL A FIREPLACE INSERT FOR USE WITH THIS FIREPLACE.

- PROPER INSTALLATION is the most important step in ensuring safe and continuous operation of this fireplace. Consult the local building codes as to the particular requirements concerned with the installation of all factory built fireplaces. Although grounding may not be required by code, it is recommended by the manufacturer.

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

MINIMUM CLEARANCES TO COMBUSTIBLES:

Framing and enclosures may safely make direct contact with the spacers on the top of the fireplace. The fireplace may sit directly on combustible flooring. The fireplace opening must not be less than 18 inches from a combustible, perpendicular side wall. (NOTE: This can be reduced to 12 inches if a FMI PWS-42 wall shield is used.) Maintain a 2 inch minimum air space clearance between combustible materials and the chimney. A 16 1/2 inch inside chase dimension is required as a minimum size.

WARNING: DO NOT PACK REQUIRED AIR SPACES WITH INSULATION OR OTHER MATERIALS.

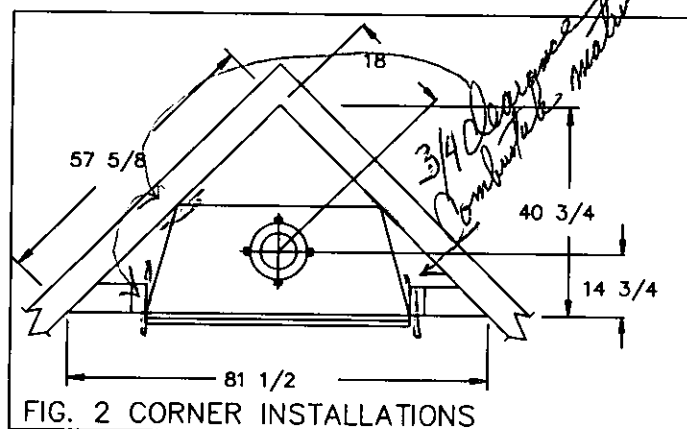
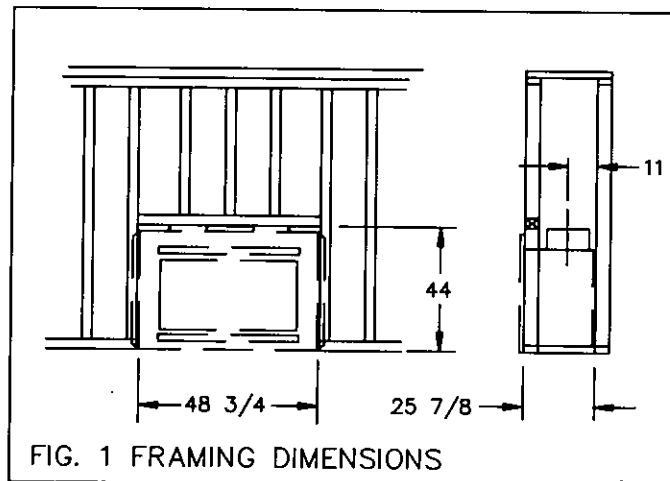
HEIGHT: The minimum height of the chimney, measured from the base of the fireplace to the flue gas outlet is 14 feet for straight flues, 16 feet with one elbow set. For systems with 2 elbow sets, the minimum height is 22 feet. The maximum height of any system is 60 feet. This measurement includes the fireplace, chimney sections and the effective height of the termination assembly.

WARNING:

Risk of fire damage. When replacing grate, replace with FMI Model 42GR grate only. Fuel - Use wood or if a decorative gas appliance is installed, burn Propane or Natural Gas only.

INSTALLING THE FIREPLACE:

STEP 1: Frame the opening for the fireplace using the dimensions shown in FIG. 1 or FIG. 2.



STEP 2: Set the fireplace directly in front of this opening and slide the unit back until the mounting flanges touch the side framing.

STEP 3: Check the level of the fireplace and shim with sheet metal if necessary.

STEP 4: When the fireplace is installed upon a combustible floor a galvanized steel ember protector must be installed between the fireplace and the hearth extension as illustrated in FIG. 15.

STEP 5: Secure the fireplace to the framing through the flanges located on the sides on the fireplace with 8 penny nails.

NOTE: The 3/4" clearance is not required at the nailing flange. (SEE FIG. 18)

ASSEMBLING AND INSTALLING YOUR DOUBLE-WALL CHIMNEY SYSTEM

Each double wall chimney section consists of an outer pipe, flue pipe and one wire spacer. The pipe sections are not unitized and must be assembled independently as the chimney is installed. When starting the chimney directly on the fireplace, the flue pipe section must be installed first, with the lanced side up. The outer pipe section can then be installed over the flue pipe section with the hemmed end up. (SEE FIG. 3)

Press down on each pipe section until the lances securely engage the hem on the fireplace starter. The wire spacer will assure the proper spacing between the inner and outer pipe sections.

WARNING: THE OPENINGS IN THE COLLAR AROUND THE BASE OF THE CHIMNEY AT THE TOP OF THE FIREPLACE MUST NOT BE OBSTRUCTED. NEVER USE BLOWN INSULATION TO FILL THE CHIMNEY ENCLOSURE.

Continue to assemble chimney sections as outlined above, making sure that both inner and outer pipe sections are locked together.

When installing double wall "snap lock" chimney together, it is important to assure the joint between the chimney sections are locked. Check by pulling chimney upward after locking. The chimney will not come apart if properly locked. It is not necessary to add screws to keep the chimney together.

LINEAL GAIN: THE ACTUAL MEASURABLE LENGTH OF A PART AFTER TWO OR MORE PARTS ARE CONNECTED.

12 3/8 GALVANIZED
OUTER PIPE

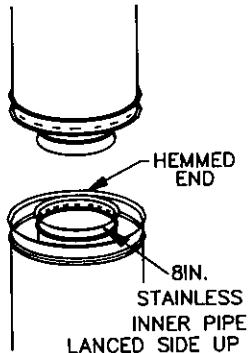


FIG. 3

LINEAL GAIN

PART NO.	DESCRIPTION	GAIN (IN.)
42GC II	FIREPLACE	43 1/2
12-8DM	PIPE SECTION	10 5/8
18-8DM	PIPE SECTION	16 5/8
36-8DM	PIPE SECTION	34 5/8
48-8DM	PIPE SECTION	46 5/8
RTL 8DM	ROUND TERMINATION	6
ETL 8DM	CHASE TERMINATION	7 TO 17

FIRESTOP SPACERS:

Firestop spacers are required at each point where the chimney penetrates a floor or ceiling joist space. Their purpose is two fold, they establish and maintain the required clearance between the chimney and combustible materials.

They also provide complete separation from one floor space to another floor or attic space as required by most codes. When penetrating a floor or ceiling at an angle, PART 30 FS-8DM firestop should be used.

When the double wall pipe passes through a framed opening into an attic space, the firestop must be placed into the attic floor as in FIG. 4.

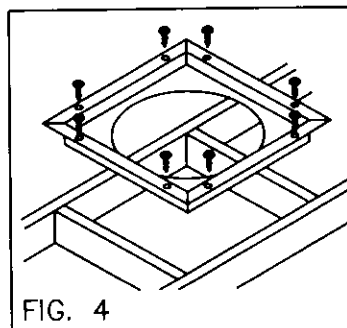


FIG. 4

When the pipe passes through a framed opening into a living space above, the firestop must be placed onto the ceiling from below as in FIG. 5.

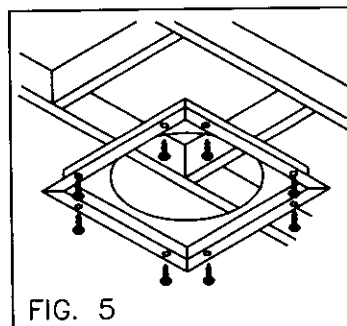


FIG. 5

SUPPORT SECTIONS:

The chimney support section is a 4 strap 12" length of pipe. A chimney support is required at the 30 foot level above the fireplace after a straight chimney run, or above a return elbow after a straight chimney run (FIG. 6). This support is designed to relieve the extra weight load on the fireplace and elbows when high chimneys are installed.

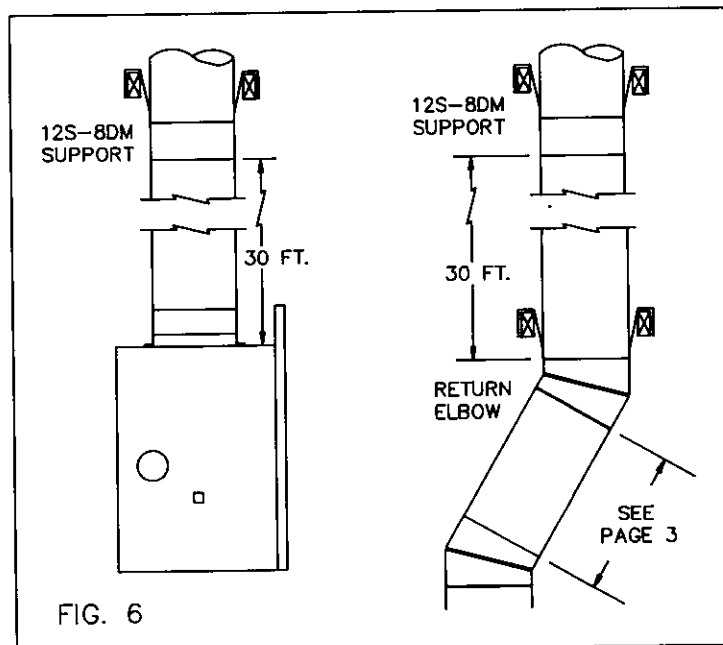


FIG. 6

INSTRUCTIONS WHEN OFFSET OF CHIMNEY IS NEEDED

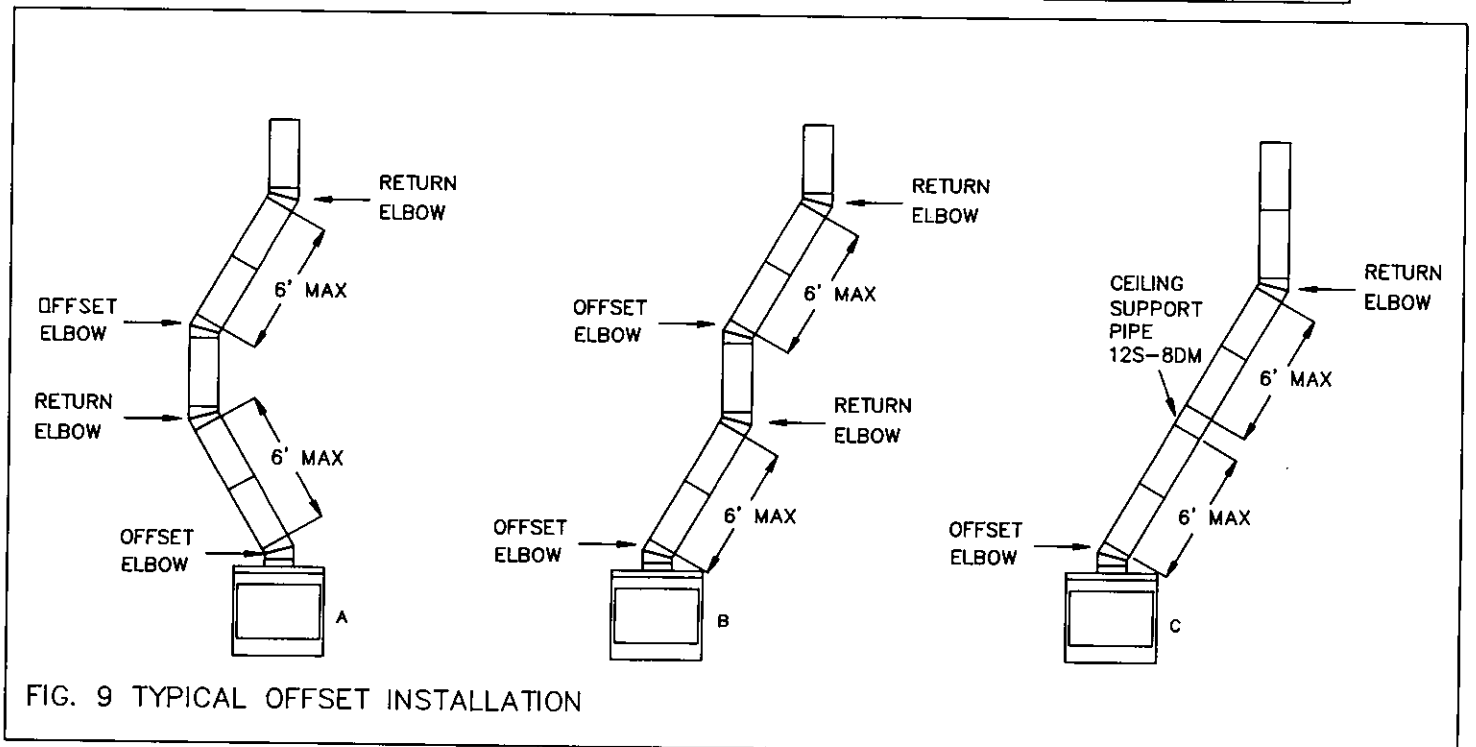
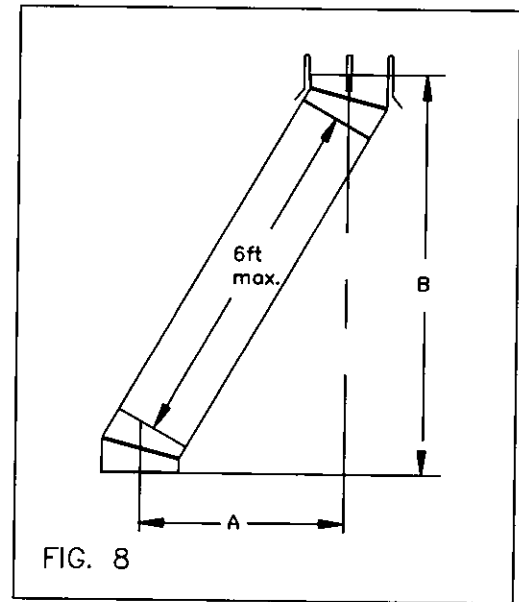
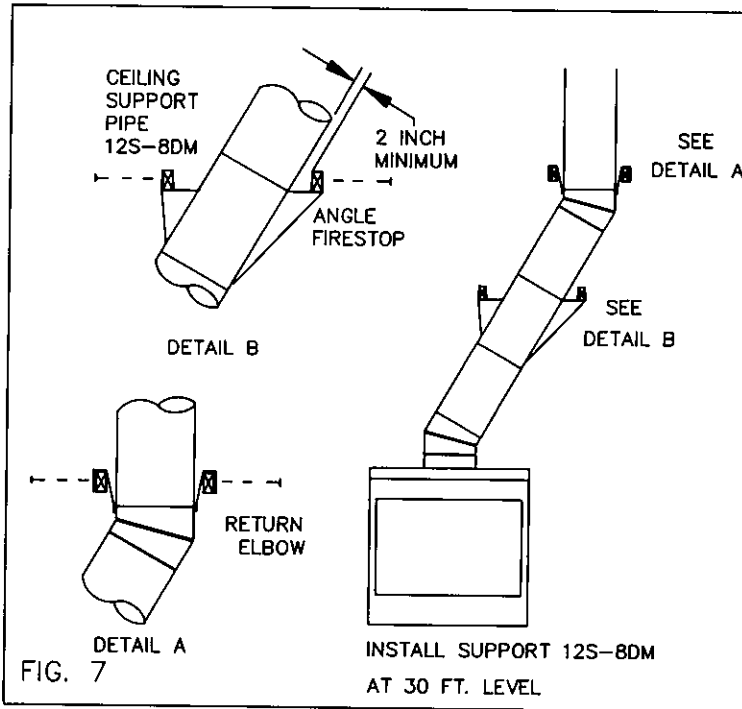
TO INSTALL ELBOWS

1. To achieve desired offset, you may install combinations of 12", 18", 36", 48" lengths of double wall pipe (SEE SINGLE OFFSET CHART & FIGS. 8 & 9).

2. Chimney weight above offset rests on return elbow. Straps must be securely nailed to rafters or joists. (SEE FIG. 7 DETAILS A & B)

3. Maximum length of pipe between supports (return elbow or 12S-8DM) is 6' of angled run. Maximum of two (2) 6' angled run sections per chimney system. (SEE FIG. 9)

RISE AND OFFSETS												
A	B	48	36	18	12	A	B	48	36	18	12	12S
4 3/8	16 3/8					41 1/4	80 1/4		1	1	1	1
9 3/4	25 1/2				1	45	86 3/4		2			1
12 3/4	30 3/4			1		46 3/4	89 1/2	1		1	1	1
15	34 3/4				2	51	97	1	1			1
18	40			1	1	53 1/4	101		2	1		1
21 1/4	46 1/4		1			56 1/4	106 1/4	2				1
23 3/4	49 1/4			1	2	59 1/4	111 1/2	1	1	1		1
27 3/4	56 3/4	1				61 3/4	115 1/2	2			1	1
30	60 3/4		1	1		64 3/4	120 3/4	2		1		1
33	66	1			1	68 1/4	127	1	2			1
36	71	1		1		70	130	2		1	1	1
38 1/4	75		2			74 1/4	137 1/2	1	2		1	1
						76 3/4	141 1/2	1	2	1		1
						79 3/4	146 3/4		4			1



PENETRATING THE ROOF:

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

STEP 1: Determine the center point through which the pipe will penetrate the roof.

STEP 2: Determine the pitch of the roof. Pitch is the distance the roof drops over a given span, usually 12 inches. A 6/12 pitch means that the roof drops 6 inches for each 12 inches one measures horizontally down the roof.

STEP 3: From the center point determined in STEP 1, measure an opening 16 1/2 inches wide (8 5/8 inches to each side of the center point). For a roof pitch between 0/12 (flat) and 6/12, measure an opening 21 inches long (10 1/2 inches above and below the center point).

6/12 to 12/12 pitches: Measure 26 inches (13 above and below).

12/12 to 18/12 pitches: Measure 32 1/2 inches (16 1/4 above and below).

18/12 to 24/12 pitches: Measure 40 inches (20 above and below).

STEP 4: Remove the shingles around the opening measured and cut out this section.

STEP 5: Add the next sections of pipe until the end penetrates the roof line. Check to see that proper clearances are maintained. Extend chimney by adding sections of double wall pipe until pipe is a minimum of 30 inches above highest point of roof cut-out. Termination and chimney must extend a minimum of 36 inches above highest point where it passes through roof. SEE 10', 2' RULE (FIG. 10)

TERMINATIONS:

The fireplace and chimney system must be vented to the out-of-doors and must be terminated with the listed round top or chase terminations. If a chase termination is desired, refer to the instructions supplied with the termination.

WARNING: USE ONLY THE RTL-8DM OR ETL-8DM WITH THIS FIREPLACE.

CAUTION :

Do not seal ventilation openings on the rooftop flashings. Follow the installation instructions provided with the termination being used.

FOR ROUND TOP TERMINATION ON ROOF:

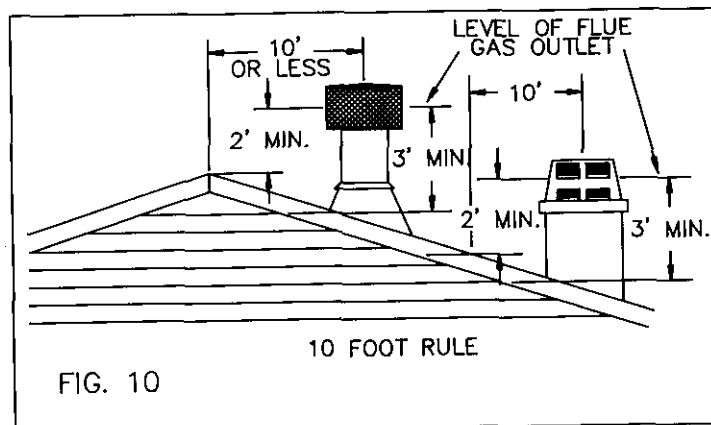
STEP 1: Slide the flashing over the pipe (no firestop is needed at the roof level). Tack the flashing down at the top two corners with roofing nails. Lay tiles over the top and sides of the flashing and secure them to the roof through the flashing with roof nails. Lay tiles under the lower edge and secure these to the roof. Mastice all nail heads.

STEP 2: Wrap and lock the storm collar around the outer pipe and push down on the flashing. Caulk around the entire perimeter of the storm collar. (SEE FIG. 11)

STEP 3: Place the RTL-8DM onto the pipe end as illustrated and secure with the screws provided.

10 FOOT RULE:

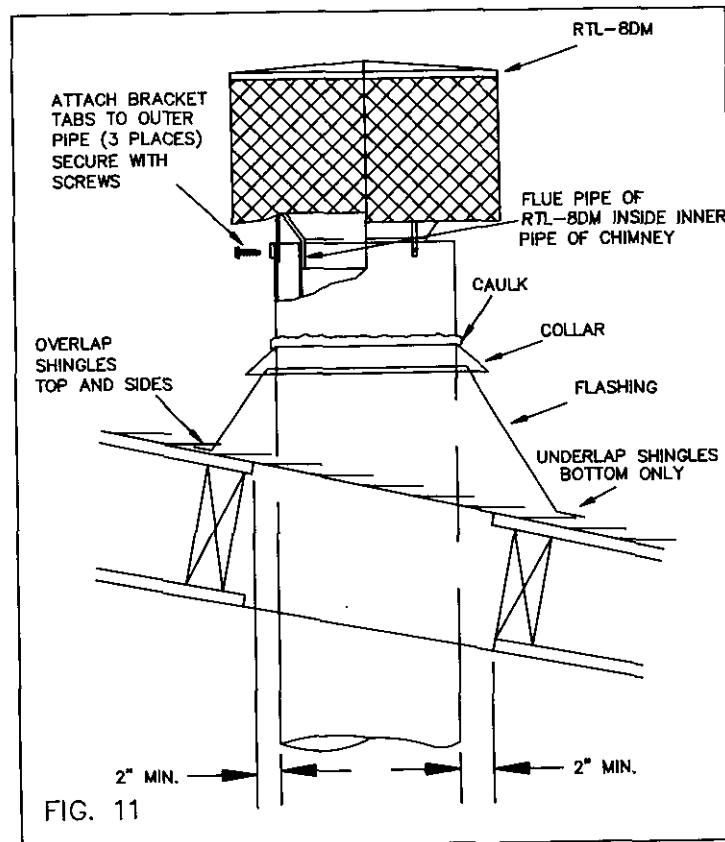
All chimney terminations must extend a minimum of 3 feet in height above the highest point where it passes through the roof and must be at least 2 feet above the peak of the roof if within a horizontal distance of 10 feet from the peak. (SEE FIG. 8)



IMPORTANT: If an exposed portion of chimney is greater than 5 feet above the roof line, use support wires to keep chimney secure. The support wires may be attached to the outer pipe of the chimney with screws, provided the screws are not long enough to penetrate the inner flue pipe.

NOTE:

The exposed part of the chimney can be painted to match the house decor. Clean the part to be painted to remove any grease or oil then paint with a primer paint before applying the finish paint.



IMPORTANT: install gas line before finishing fireplace. If desired a decorative gas appliance may be installed. Use only iron pipe, 1/2" size, and appropriate fittings. When installing a gas line, a valve designed for installation outside the fireplace is recommended.

To install, remove the gas line plug located in the side firebrick approximately 2" above the bottom. The plug must be tapped out from the finished side towards the unfinished side. (SEE FIG. 12A)

Insert the gas line parallel to the face. Fill any gap between the gas line and the hole in the firebrick with refractory cement or commercial furnace cement. (SEE FIG. 12B)

TEST FOR GAS LEAKS :

All gas piping and connections must be tested for leaks after the installation is completed. Be sure gas valve is turned on. Apply soap suds solution to all connections and joints. If bubbles appear, leaks can be detected and corrected. DO NOT use a match or open flame of any kind to test leaks. Never operate any appliance with leaky connections.

The gas pipe is intended for use with a decorative gas appliance only, in accordance with the National Fuel Gas Code ANSI Z223, 1-1980.

CAUTION: WHEN USING A DECORATIVE APPLIANCE, THE DAMPER MUST BE REMOVED OR PERMANENTLY LOCKED IN OPEN POSITION.

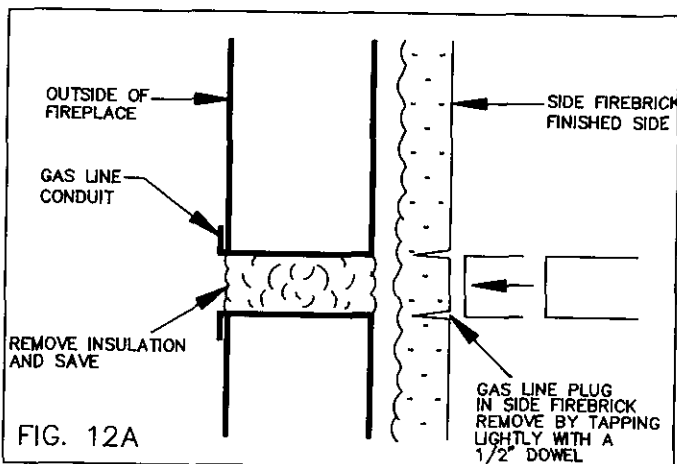


FIG. 12A

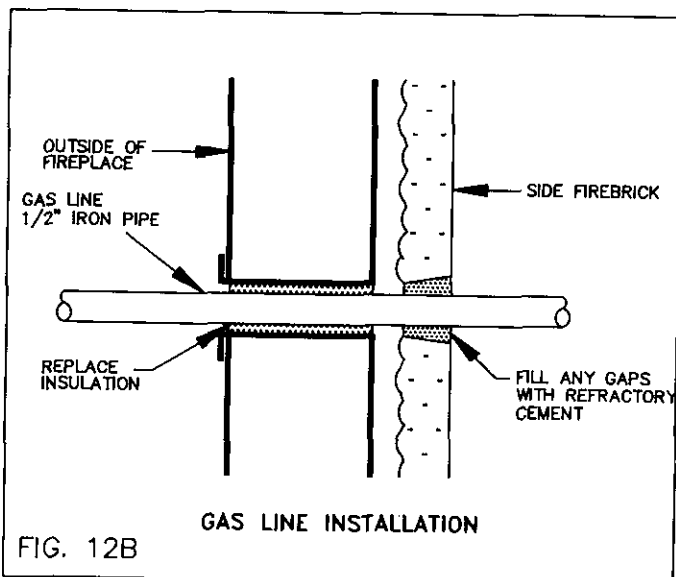


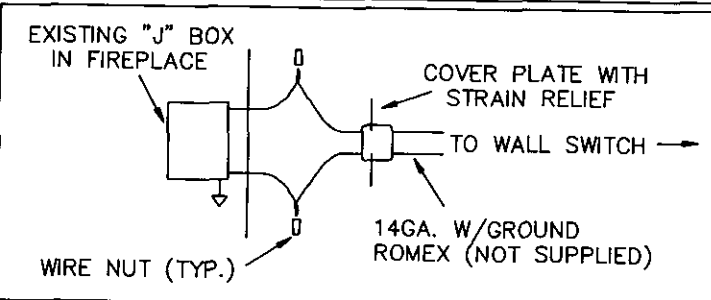
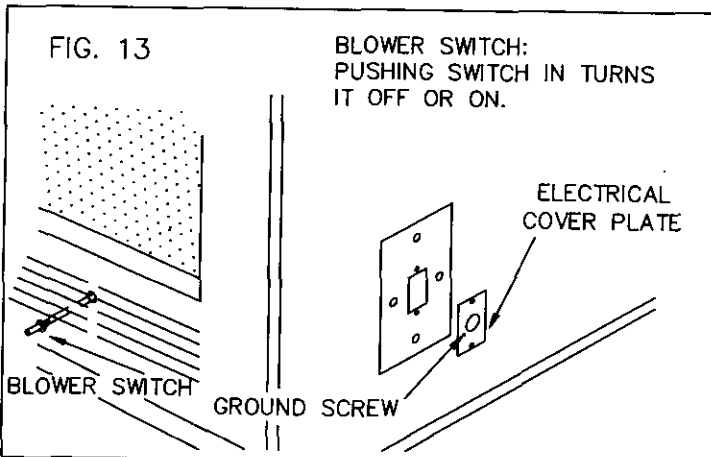
FIG. 12B

BLOWER ASSEMBLY :

A blower assembly is available for use with this fireplace as an optional accessory. They are designed to be installed on FMI factory prewired fireplaces only. The blower assembly model CBK EII or CBK III can be installed prior to or after installation of the fireplace. Use of blowers or fans other than manufactured by Fireplace Mfg. Inc. voids the warranty.

NOTE: Fireplace must be wired to the house electrical system in order for blowers to operate. This blower system does not require a wall switch. Refer to CBK EII or CBK III blower assembly installation instructions for installation details.

Electrical connections are made through the cover on the side of the fireplace illustrated in FIG. 13. Use 14 AWG copper wire for all connections. Be certain the fireplace is properly grounded. (SEE FIG. 13)



COMBUSTION AIR KIT: (MODEL AK-4)

Remove air inlet coverplate and attach the air inlet collar into the 4" hole on left side only.

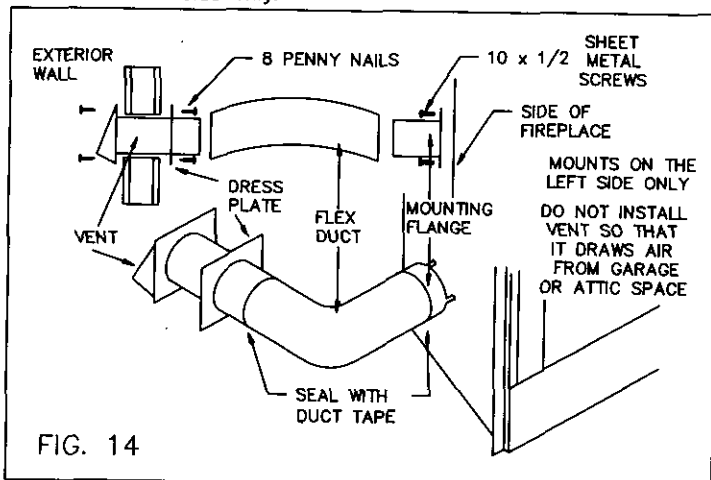


FIG. 14

The outside air vent can be installed through an outside wall or a ventilated crawl space. A plaster ground is provided for use on unfinished walls prior to applying finish surface. Attach combustion air inlet duct to outside air inlet. (SEE FIG. 14)

CAUTION: AIR INLET DUCTS ARE NOT TO TERMINATE IN ATTIC SPACE.

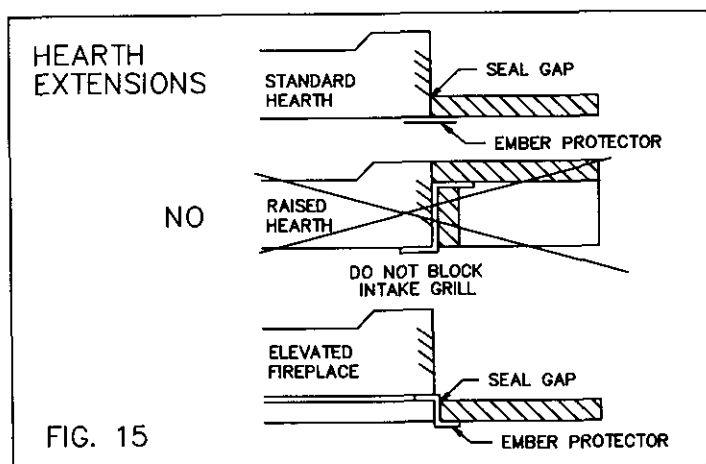
Avoid installing outside air eyebrow in areas where inlet opening may be blocked by snow, bushes or other obstacles. Maximum height of air inlet above platform of fireplace is 3 ft. below the termination exhaust height.

FINISHING YOUR FIREPLACE:

Combustible materials may make direct contact with the sides and top of the fireplace face. It is important that combustible materials do not overlap the face itself. Brick, tile or other non-combustible materials may be applied to the face provided that any gap between the material around the fireplace opening be caulked to prevent the seepage of combustion products.

HEARTH EXTENSION:

A hearth extension projecting a minimum of 20" in front of and a minimum of 12" beyond each side of the fireplace opening is required to protect combustible floor construction in front of the fireplace. Use FMI hearth extension HE 42 or a layer of non-combustible, inorganic material having a thermal conductivity of $K=0.84 \text{ BTU IN./FT. HR F}$ (or less) at 1" thick. Example of determining hearth extension equivalent. If the material selected has a K Factor of 0.25, such as glass fiber, then the following formula would apply: $0.25/0.84 \times 1" = .30 \text{ thk.}$ This must be covered by any non-combustible material such as tile, slate, brick, concrete, metal, glass, marble, stone, etc. Fasten the hearth extension to the floor to prevent shifting and seal the gap between the fireplace frame and hearth extension with a noncombustible material. (SEE FIG. 15)

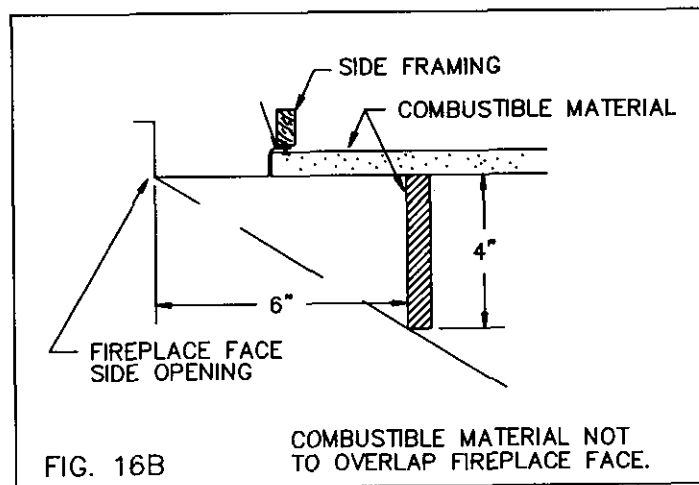
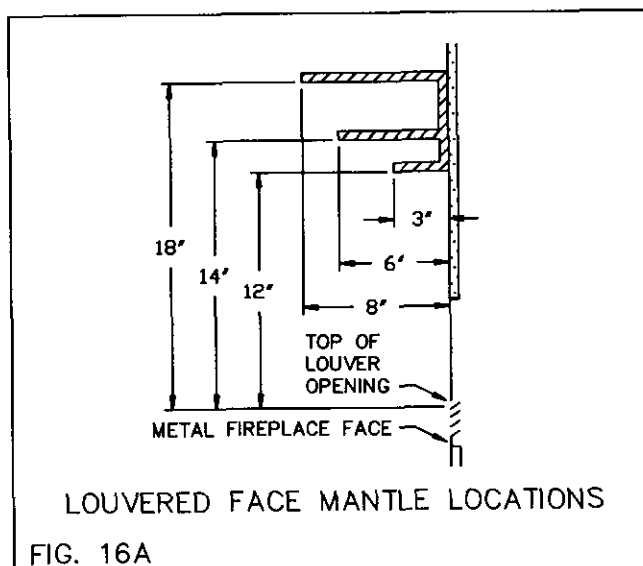


WARNING:

HEARTH EXTENSION IS TO BE INSTALLED ONLY AS ILLUSTRATED.

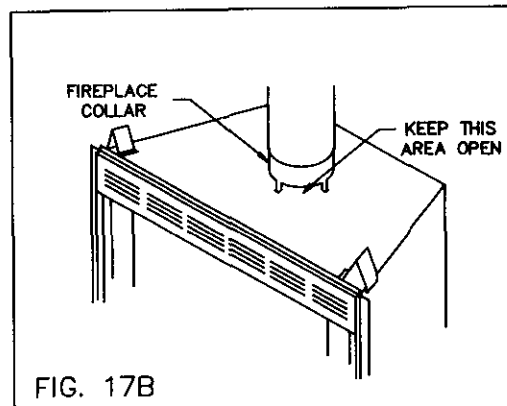
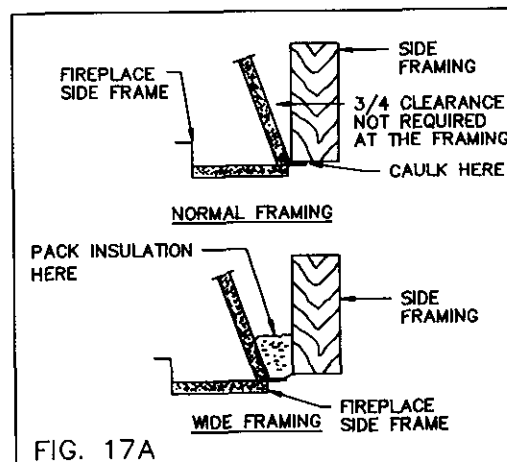
MANTLE:

A mantle may be installed if desired. SEE FIG. 16A or 16B minimum heights above and beyond opening of the fireplace face.



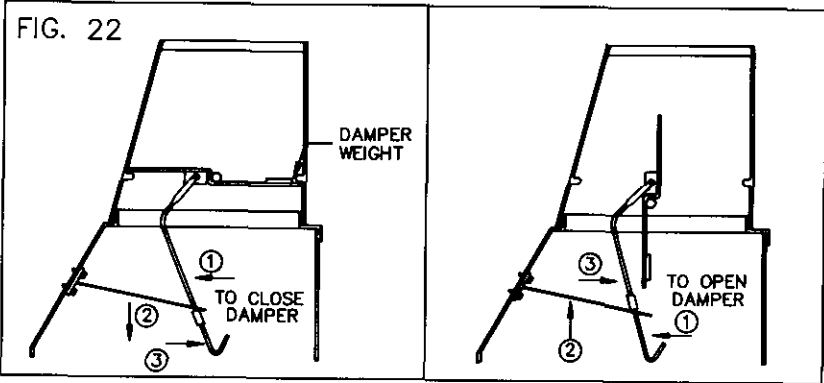
COLD CLIMATE INSTALLATIONS:

It is important to seal the opening around the fireplace framing with a non-combustible caulking or insulation to prevent the entry of cold air from the chase area. SEE FIG. 17A. The opening around the base of the chimney must remain open and free to circulate outside air for keeping the chimney cool as designed. SEE FIG. 17B. The fireplace must be set on a continuous platform to prevent cold air from conducting through the metal bottom. The platform bottom may be constructed of any wood product or other materials such as cement.



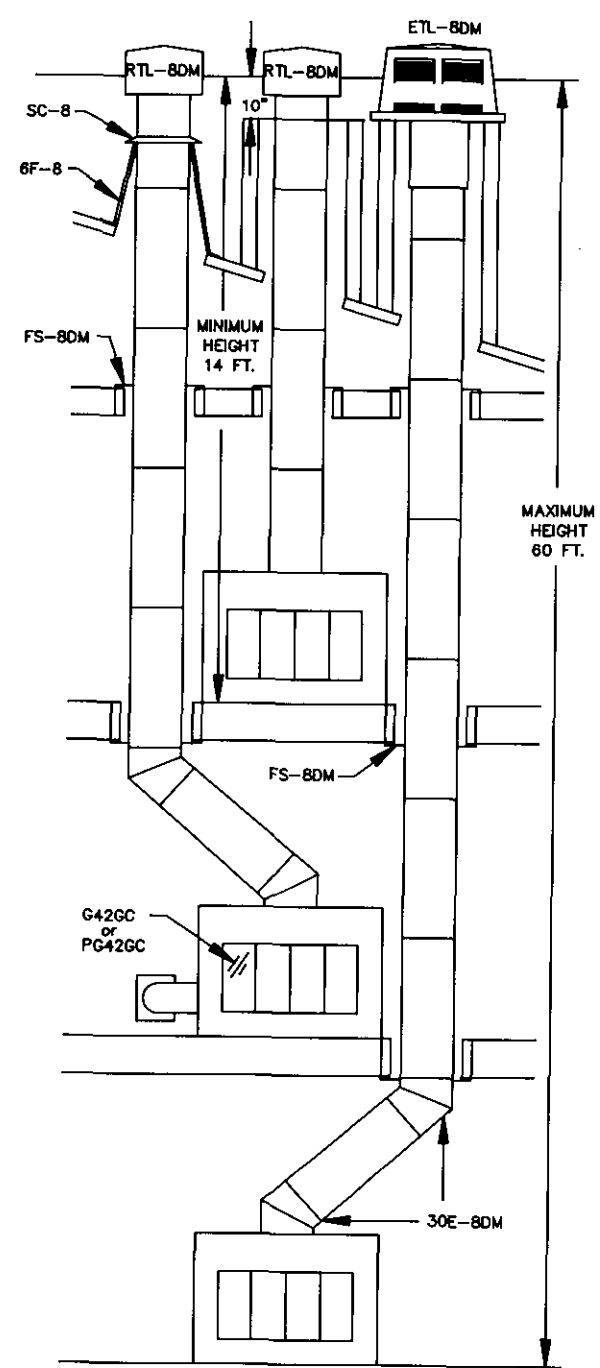
DAMPER OPERATION:

The damper handle to open and close the damper blade is located inside the firebox at the center towards the back wall. Pushing the handle back into the keyway slot will free the damper blade to automatically open. To close, reach in and push the handle back into the keyhole slot then pull down and forward to lock it in place. (SEE FIG. 22)

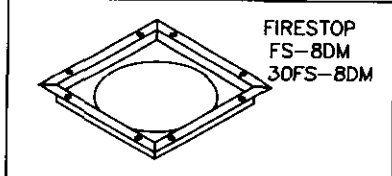
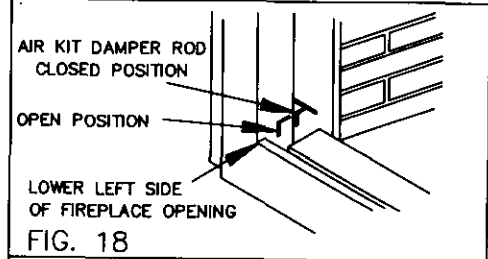


 DELUXE BLOWER KIT CBK-III	 BLOWER KIT CBK-EII
 FLUE PIPE 12-8DM 18-8DM 36-8DM 48-8DM	 GRATE - MODEL 42 GR
 SC-8 STORM COLLAR ROOF PITCH 6F8 0 TO 6/12	 RTL-8DM ROUND TOP TERMINATION
 EMBER PROTECTOR EP-42	 ETL-8DM ECONO-TOP TERMINATION
 HEARTH EXTENSION HE-42	 AIR KIT AK-4
 PWS-42 PROTECTIVE WALL SHIELD	 G42GC or PG42GC GLASS DOOR KIT
 ELBOW SET 30E-8DM	 SUPPORT PIPE 12S-8DM

COMPONENT PARTS



AIR KIT OPERATION:
The damper rod for the air kit is located inside the face opening at the lower left corner. Pull the rod to open the air kit and push the rod to close. (SEE FIG. 18)



SUPERIOR[®]

The Fireplace Company

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BUILDING

Installation Instructions

For Superior
HCE Series Fireplace
Model HCE-4550

And
Hearthstar
N Series Fireplace
Model 45B-N

This installation manual will help you obtain a safe, efficient, dependable installation for your fireplace and chimney system. Please read and understand these installation instructions before beginning your installation.

Do not attempt to modify or alter the construction of the Fireplace or its components. Any modification or alteration of construction may void the warranty, listings and approvals of this system.

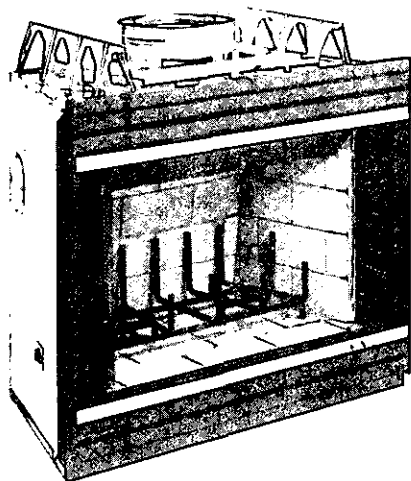
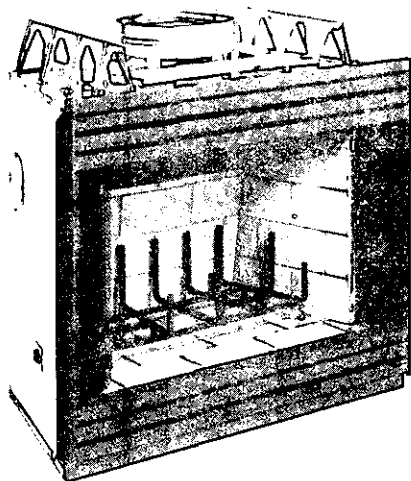
The name Superior is used synonymously with the name Hearthstar throughout this Installation Instruction manual.

**PLEASE RETAIN THIS
MANUAL FOR FUTURE
REFERENCE.**

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.

**WARNING: THE TF10 CHIMNEY SYSTEM
REQUIRES A 1 INCH AIR SPACE TO
COMBUSTIBLE MATERIALS AND THE TF8
CHIMNEY SYSTEM REQUIRES A 2 INCH AIR
SPACE TO COMBUSTIBLE MATERIALS WHEN
INSTALLING THIS FIREPLACE SYSTEM.**



Standard HCE Includes Both
Black And Brass Trim Covers



RULES TO FOLLOW FOR SAFETY

1. Before starting your fireplace installation, read these safety tips and installation instructions carefully to be sure you understand completely. Failure to follow them could cause a fireplace malfunction resulting in serious bodily injury and/or property damage.
2. Always check your local building codes. The installation must comply with their regulations.
3. Connect this model fireplace to either a Superior Model TF10 Thru Flow Chimney System (10" inside diameter) or Model TF8 Thru Flow Chimney System (8" inside diameter) residential type appliance chimney only and vent to the outside of the building.
4. To maintain top efficiency, and to prevent build-up of soot and creosote, inspect and clean chimney periodically during the heating season.
5. Use solid wood fuel only. DO NOT use artificial logs, chemical chimney cleaners, coal or flame colorants in your fireplace.
6. DO NOT use charcoal or coal. This fuel gives off deadly carbon monoxide fumes.
7. NEVER light a fire with gasoline, kerosene or lighter fluid because of the danger of explosion. Keep all volatile liquids away from the fireplace.
8. NEVER leave children unattended when there is a fire burning in the fireplace.
9. Always keep flue damper open while heat is present in fireplace.
10. Before servicing, allow fireplace to cool. Always shut off any gas (if used) to fireplace while working on it. This will prevent accidental burns.
11. This fireplace is not intended to heat an entire home. Its use should be for supplemental heating only.
12. Ensure an adequate supply of combustion air to prevent possible hazards due to poor combustion and to avoid affecting other fuel burning appliances.

PRECAUTIONS

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

TOOLS AND BUILDING SUPPLIES NORMALLY REQUIRED

Tools should include:

- Phillips screwdriver
- Slot style screwdriver
- Hammer
- Saw and/or Sabersaw
- Level
- Measuring Tape
- Plumb line
- Electric drill and bits
- Pliers
- Square

If gas pipe is used:

- Pipe wrench
- Pipe cutter
- Pipe threader
- Pipe joint compound
- Pipe key valve

Building Supplies:

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

INTRODUCTION

General Information

The HCE and N fireplace unit is an energy efficient heat circulating fireplace, featuring a self contained heat circulating system, full refractory lined firebox, optional outside combustion air kit, optional glass doors and optional forced air fan kit.

Use of any components or accessories not described in the inventory list on pages 15 and 16 will not be in conformance with the terms of the U.L. listing.

Your HCE and N fireplace has been tested and listed to be installed in conventional homes by Underwriters Laboratories, Inc. (no. MH-8988); other agency listings are pending.

You will receive a lifetime of comfort and enjoyment from your fireplace provided it is installed, maintained and operated properly. These instructions are written to give you an easy-to-follow outline for fast, safe installation and troublefree operation.

Failure to use parts manufactured by Superior Fireplace Company or variations in techniques and construction materials described in this installation manual may create a serious fire hazard and may void the Superior warranty.

CLEARANCES AND HEIGHT REQUIREMENTS

The combustion air kit, firestop spacer and flashing may be placed directly on or against normal construction materials.* The TF10 chimney sections, chimney elbows and the stabilizer require a minimum 1" air space to combustible and all other materials. The TF8 chimney sections, chimney elbows and the stabilizer require a minimum 2" air space to combustible and all other materials. The fireplace may be placed directly on combustible materials and only minimal clearance to sides and rear. Both the fireplace and chimney must be enclosed when installed in, or passing through, a living area where combustible materials might come in contact with the chimney. A mantel may be installed a minimum of 18" above the opening of the fireplace.

*Construction Materials:

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

For questions please call Superior Fireplace Company. Special restrictions apply to the front facing of the fireplace and nearby walls. (See pages 13 and 14).

CHIMNEY SYSTEM

Superior's factory-built fireplace system, Model HCE-4550 and 45 B-N are designed and code listed for use with Superior's TF10 and TF8 Thru Flow Chimney Systems.

Always use Superior's Thru Flow Chimney and chimney components with this Fireplace System. DO NOT modify or alter these components as this could create a serious hazard and will void the Superior Warranty.

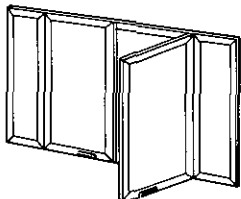
SYSTEM HEIGHT

The total height of your HCE and N fireplace system from the floor of the firebox to the chimney top must not exceed 80' for conventional homes, and must also meet minimum height requirements. Refer to the minimum system height chart.

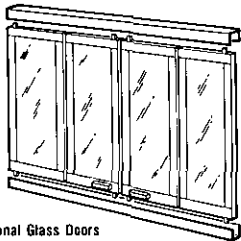
Installation Instructions

The HCE and N Series Fireplace Subsystems.

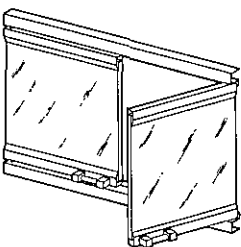
1. The Fireplace
2. Chimney and Termination
3. Glass Door Assembly (Optional)
4. Outside Combustion Kit (Optional)
5. Forced Air Fan Assembly (Optional)



Optional Glass Doors
(GD Series)

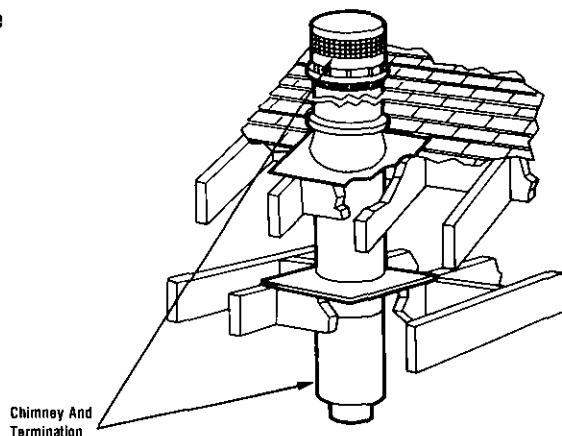


Optional Glass Doors
(BFE Series)



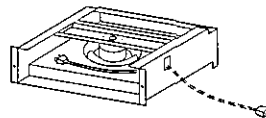
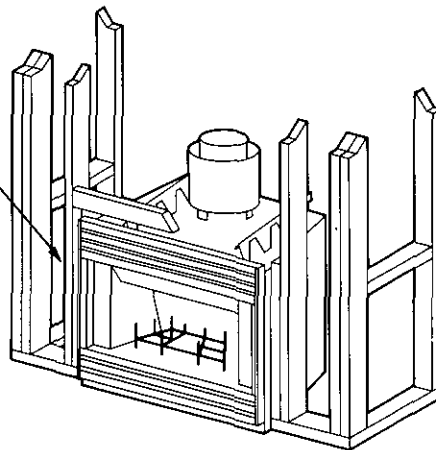
Optional Glass Doors
(H Series)

Figure 1



Chimney And
Termination

Optional Outside
Air Kit



Forced Air Kit
(Optional)

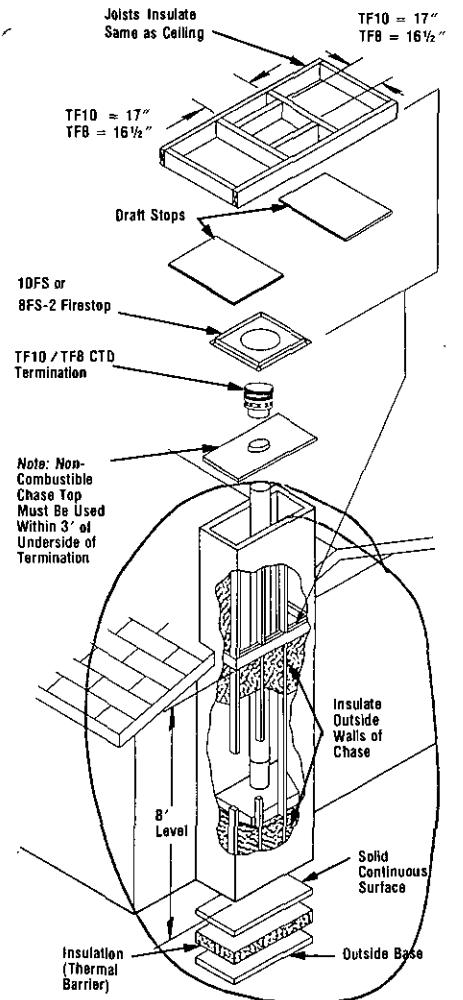
Typical Conventional Home Installation

MINIMUM SYSTEM HEIGHT

Model	HCE-4550 45B-N	
	TF10	TF8
Vertical Installation Conventional Home	15' 0"	16' 8"
Offset Installation (1 offset)	15' 0"	16' 8"
Offset Installation (2 offsets)	25' 0"	25' 0"

CHASE ENCLOSURE

If you plan on using a chase (a vertical box-like structure), overhead obstructions will normally be avoided, however, other factors must be considered. A chase should be constructed (and insulated) just like any other outside wall. The base of the chase should also be insulated between the solid continuous floor beneath the fireplace and the chase bottom. Refer to (Figure 2) for typical chase configuration.



WARNING: THE FIREPLACE MUST NOT BE PLACED AGAINST INSULATION OR VAPOR BARRIER. INSULATION OR VAPOR BARRIER MUST FIRST BE COVERED WITH GYPSUM BOARD, PLYWOOD OR PARTICLE BOARD.

Notes:

1. Do Not Insulate The Chase Cavity With Blown Or Fib Type Insulation Materials.
2. Local Codes May Not Require Firestopping at The Ceiling Level For Outside Chase Installations, But Is Recommended For Safety And The Reduction Of Heat Loss.

Figure 2

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 flue damper. The flue damper handle extends down from the inside top of fireplace; push in to close, pull out to open — takes firm pressure to lock closed.

LOCATION OF FIREPLACE

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

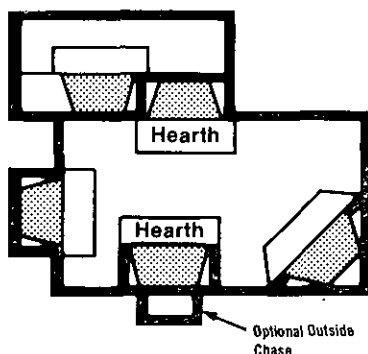


Figure 3

If there is a perpendicular side wall closer than 18" when installed to the nearest side of the fireplace opening, it must be protected with a metal wall shield (WS40), manufactured by Superior or one constructed with a 40" x 40" x 1/2" mill-board or a durable non-combustible material with equal or greater insulating value (See page 14). A perpendicular side wall cannot be closer than 8" from the fireplace opening.

ASSEMBLY STEPS

1. Position firebox prior to framing or into prepared framing.
2. Install chimney system.
3. Install optional outside combustion air kit.
4. Field wire main power supply to fireplace (if optional fan assembly is to be installed at a later time).
5. Complete finish wall material, surround and hearth extension to your own individual taste.
6. Remove the four (4) louver strips and the two (2) antique brass cover pieces from the protective container and fasten onto the face of the fireplace. The louver strips snap onto the louver pegs without the need for tools. To assemble the louver strips tilt the strip on top of the pegs and snap lower edge to lock in place. The antique brass cover pieces are mounted over the support bars directly over and below the fireplace opening. They

also snap in place. Keep the locking dimples on the bottom side of the covers when installing.

7. Attach optional glass door assembly.

Note: If trim accessories are to be used, refer to appropriate trim installation instructions.

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

INSTALLING THE FIREPLACE

The fireplace may be installed directly on a combustible floor or may be raised on a platform of any desired height. Do not place fireplace on carpeting, vinyl or other soft-surfaced floor coverings. It may, however, be placed on flat wood, plywood, particle board or other hard-surfaced materials. Be sure fireplace rests on a solid continuous floor or platform so no cold air can enter room from under fireplace.

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

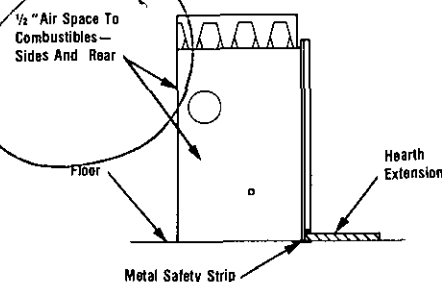


Figure 4

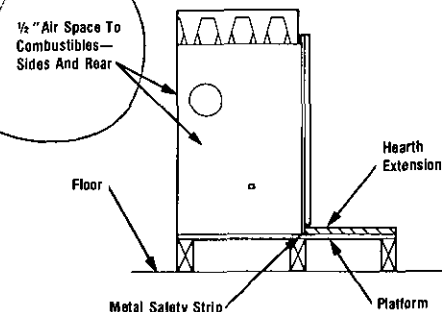


Figure 5

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 components may be found in the suggested price list.

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

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 INLETS AND OUTLETS. DOING SO MAY RESULT IN A POTENTIAL FIRE HAZARD.

If you plan to raise the fireplace and hearth extension, build this platform assembly, then position fireplace and hearth extensions on top.

TO INSTALL:

Step 1: Slide fireplace into the prepared framing, or position fireplace in its final location for framing later.

Step 2: Insert the metal hearth strips, packaged with your fireplace beneath the fireplace as illustrated (Figure 6).

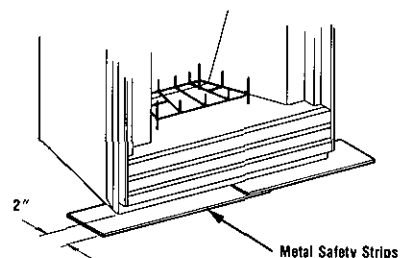


Figure 6

The hearth strips should extend in front and sides of the fireplace 2". In the event wooden blocking is used to elevate the fireplace above the floor, a "Z" type hearth strip should be fabricated and used to protect the front surface of the blocking material as well as the floor beneath the hearth extension (Figure 7).

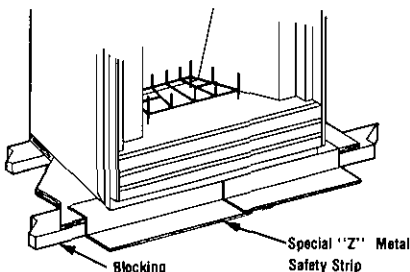


Figure 7

Step 3: Refer to fireplace dimensions and specifications on (pages 5 and 6) for framing dimensions and details. Framing header may be positioned directly on top of the fireplace spacers.

Installation Instructions

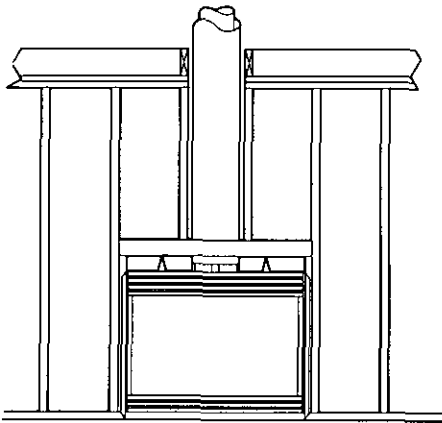


Figure 8

Step 4: Fireplace may be anchored to floor. Bend down four (4) anchor tabs located at base of fireplace and secure to floor with screws or nails (see Figure 9).

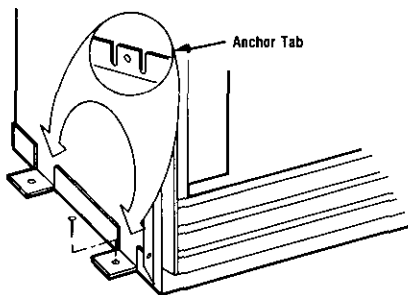


Figure 9

Step 5: Fireplace may be secured to side framing members utilizing appropriate nailing flange using 8d nails (see Figure 10).

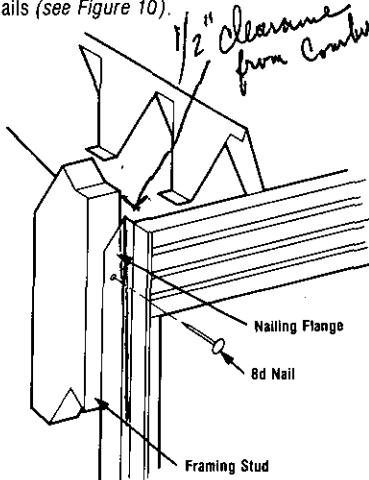
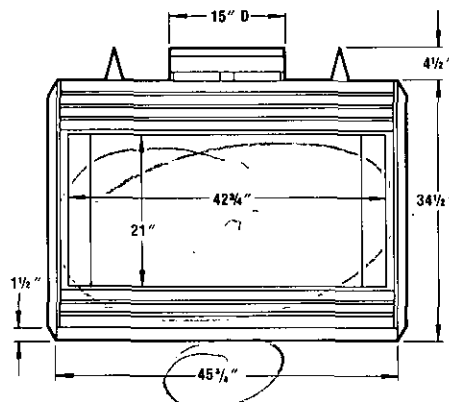


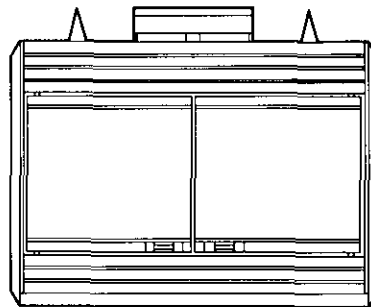
Figure 10

FIREPLACE SPECIFICATIONS



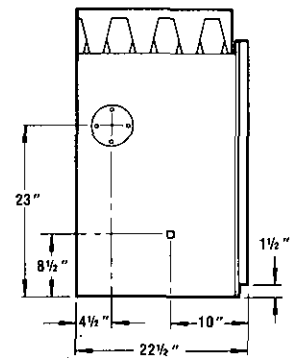
HCE-4550 And 458-N
(Without Glass Doors)

Figure 11



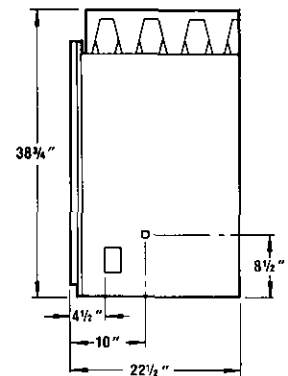
HCE-4550 And 458-N
(With H Series Glass Doors)

Figure 12



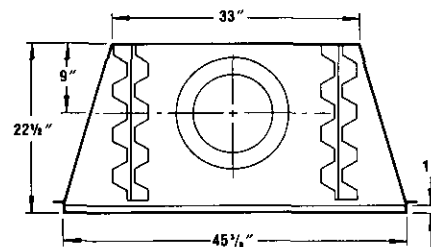
Left Side

Figure 14



Right Side

Figure 15



Top View

Figure 13

FRAMING SPECIFICATIONS

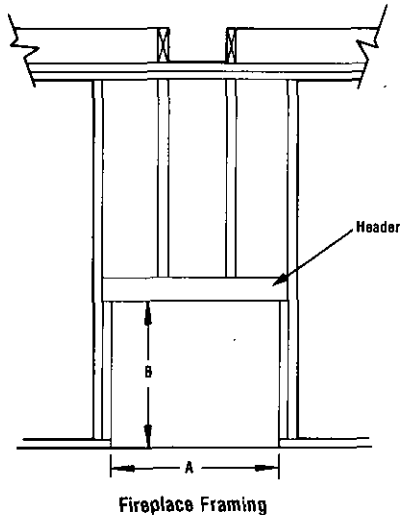


Figure 16

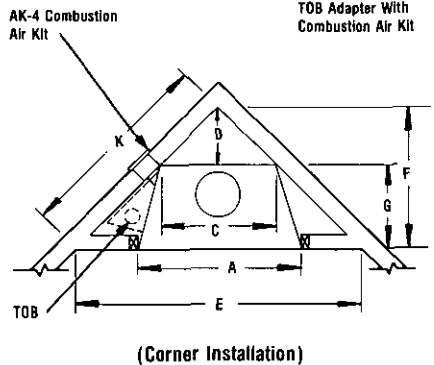


Figure 17

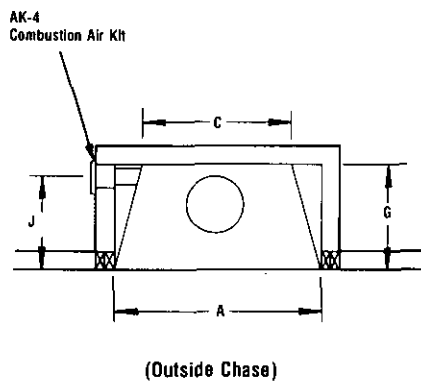


Figure 18

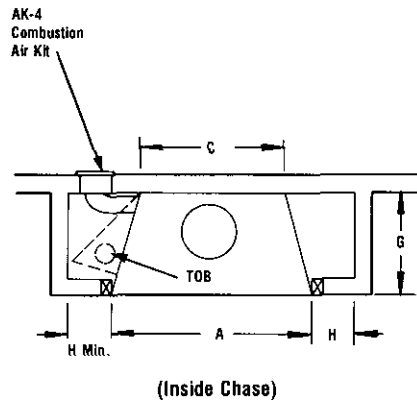


Figure 19

HCE AND B FRAMING DIMENSIONS

Installation	Models
	HCE-4550 45B-N
A	45 1/2"
B	39"
C	33"
D	16 1/2"
E	78"
F	39"
G	22"
H Without *	3"
H With *	8"
J	18"
K	55 1/4"

*Combustion Air Kit
AK-4,

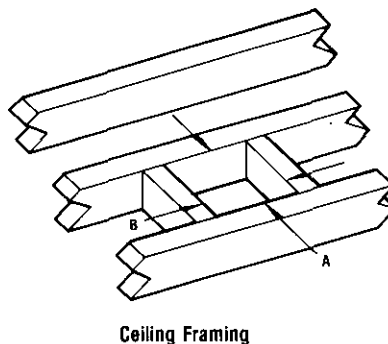


Figure 20

FRAMING DIMENSIONS FOR CEILING

Type Flue	Ceiling Opening	
	A	B
TF10, Vertical	17"	17"
TF10, Offset 30° (Offset applied only to ceiling openings)	17"	26"
TF8, Vertical	16 1/2"	16 1/2"
TF8, Offset 30° (Offset applied only to ceiling openings)	16 1/2"	27"

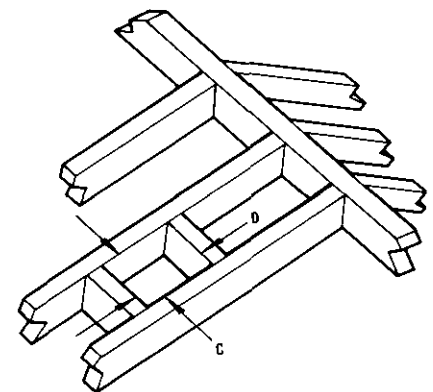


Figure 21

FRAMING DIMENSIONS FOR ROOF

Type Flue	Roof Opening		
	Pitch	C	D*
TF10, Vertical	0/12	17"	17"
	6/12	17"	19"
	12/12	17"	24"
	60°	17"	34"
TF8, Vertical	0/12	16 1/2"	16 1/2"
	6/12	16 1/2"	19"
	12/12	16 1/2"	23 1/2"
	60°	16 1/2"	32"

*Perpendicular to roof ridge

INSTALLING THE CHIMNEY SYSTEM

Step 1: Check flue damper for proper operation. When the damper is in a closed position, the damper blade should be UP and the damper control lever pushed all the way to the rear of the firebox. When the damper is open, the damper blade is DOWN and damper control lever is pulled all the way to the front of firebox.

Step 2: Using standard construction techniques, frame openings for chimney route up through ceiling(s) and roof or through outside chase.

Framing must maintain adequate support at all times.

CAUTION: ALLOW MINIMUM 1" CHIMNEY AIR SPACE TO COMBUSTIBLE FRAMING MEMBERS THROUGHOUT VERTICAL OR OFFSET CHIMNEY INSTALLATION FOR TF10 SYSTEM. ALLOW MINIMUM 2" CHIMNEY AIR SPACE TO COMBUSTIBLE FRAMING MEMBERS THROUGHOUT VERTICAL OR OFFSET CHIMNEY INSTALLATION FOR TF8 SYSTEM.

A minimum 1" or 2" air space must be reserved for all materials extending for any continuous length surrounding the chimney.

Reference (Figures 20 and 21), and charts "Framing Dimensions for Ceiling and Roof," which detail minimum ceiling and roof opening dimensions.

In new construction, to determine chimney center line, use plumb from roof or ceiling above fireplace to center or 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 passage from above ceiling (around nail), (Figure 22). Then plumb from ceiling or roof level directly above hole which has just been completed.

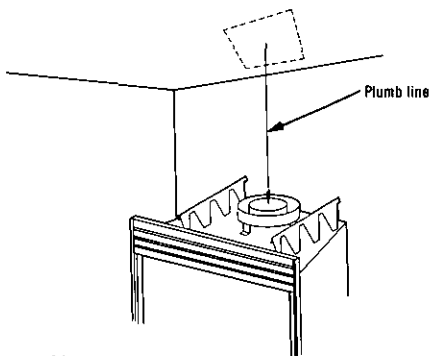


Figure 22

Step 3: Position Model 10FS or Model 10FS30 Firestop Spacer for TF10 system and 8FS-2 or 8FS30-2 Firestop Spacer for TF8 System at ceiling and nail temporarily with two (2) 8d nails. Use flat Firestop Spacer, Model 10FS or 8FS-2 if chimney penetrates ceiling vertically. If chimney penetrates ceiling at 30° angle (offset chimney), use 30° Firestop Spacer, Model 10FS30 or 8FS30-2. Use one nail on opposite sides to hold Firestop Spacer

in position. Nail permanently, using at least 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 bottom side of ceiling. If attic is above ceiling level, Firestop Spacer must be installed on top side of ceiling (Figures 23 and 24).

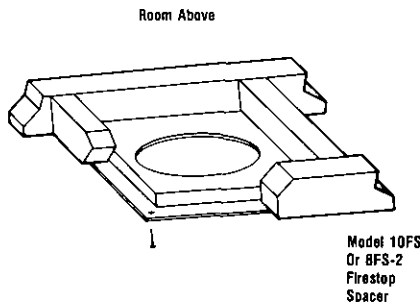


Figure 23

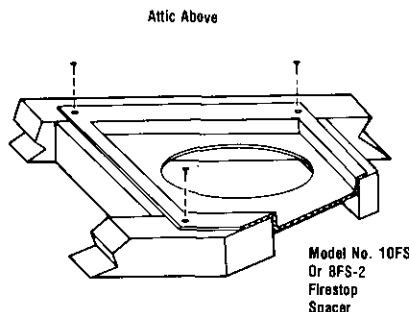


Figure 24

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.

The TF10 and TF8 Chimney Systems are two piece chimneys, which snap together from the fireplace up.

Start with the inner flue section. With the hemmed end down, snap lock it to the matching locking flue collar on top of fireplace. At all subsequent joints, the upper piece fits inside of the lower piece. Each piece snaps together and locks by means of locking tabs (9 locking tabs per joint). Check each piece to ensure proper engagement, before installing preceding section by pulling slightly from the top. If the chimney section has been installed correctly, it will not separate when you test it. Also, the chimney joint where each section is joined should be tight and flat with no gaps (Figure 25).

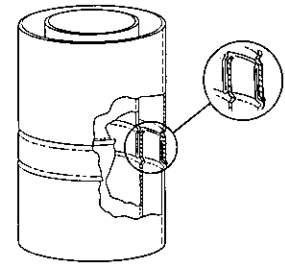


Figure 25

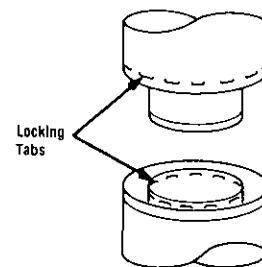


Figure 26

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 26).

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

Continue to build flue pipe assembly up through framed ceiling openings and roof frame opening. Assemble just enough to penetrate the roof and flashing openings (Figure 27). Always maintain either 1" or 2" minimum air space to combustible materials depending whether the TF10 or TF8 system is used. Always check each pipe joint (inner and outer) to ensure proper engagement. Check vertical alignment of flue pipe so that is projects from the roof in a true vertical position. Use level if necessary to ensure proper vertical position.

Superior chimney sections need not be screwed together for additional reinforcement.

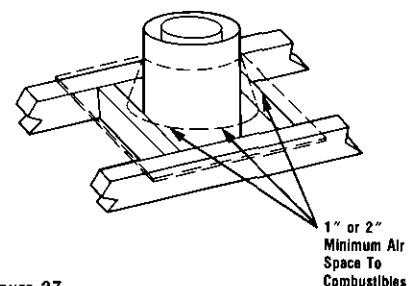


Figure 27

Step 5: The height of vertical flue pipe supported only by the fireplace must not exceed 30'. Flue heights above 30' must be supported by a Model 10-S4 or 8-S4 unitized stabilizer installed at 30' intervals.

Note: The Model 10-S4 or 8-S4 unitized stabilizers adds 2½" net effective height to the total chimney system.

Install the model 10-S4 or 8-S4 by fitting inner section down into respective section of preceding flue pipe and locking outer stabilizer section into place over the outer flue 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 flue pipe directly to stabilizer using same technique as described in Step 4.

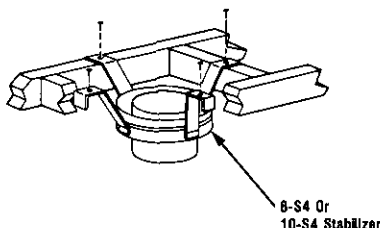


Figure 28

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

Step 6: Select proper Superior roof flashing, depending on the pitch of roof. Use chart below for selection:

Roof Pitch	Model
Flat to 6/12	10F6 or 8F6
6/12 to 12/12	10F12 or 8F12
12/12 to 60°	10F60 or 8F60

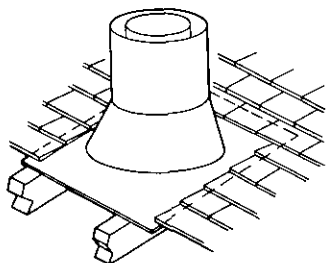


Figure 29

Next, slide roof flashing over extended chimney section that previously had 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" or 2" minimum air space to combustibles.

Step 7: Secure flashing by nailing along perimeter into roof using 8d nails. If shingled roof, slide upper end and sides of flashing under shingles (trim if necessary) (Figure 29), seal the top and both sides of the flashing to the roof with roof caulking. Cover nail heads with roof caulking.

Step 8: The standard Superior roof flashing assemblies include a storm collar. Slide storm collar over outer flue, align with top surface of flashing, insert storm tab in slot, pull tight and bend tab back over slot. Seal storm collar to outer flue pipe 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 30). Check all joints very carefully to ensure no water intrusion can take place.

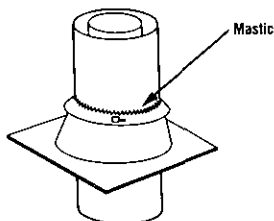


Figure 30

Step 9: Superior locking bands (Model 10LB or 8LB) may be required if 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 joints.

Align locking band (one per pipe joint) at the pipe joint — locking band wraps around pipe joint, equally covering the joint of both pipe sections. Use nut provided and TIGHTEN snugly. Do not over tighten as this may damage flue section (Figure 31).

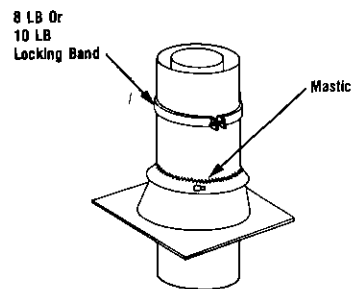


Figure 31

Note: If chimney extends more than 8 feet above roof line, 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 32). Guy wires not supplied by Superior.

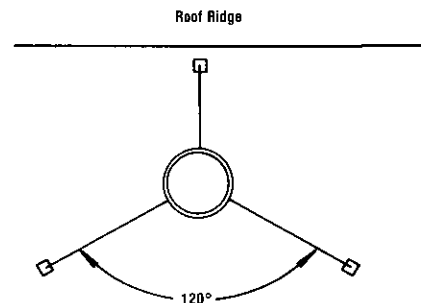


Figure 32

Step 10: If using a CTD round contemporary termination:

- 1) Hold CTD over top of last chimney section (Figure 33).
- 2) Center inner slip section into inner flue pipe — slip down.
- 3) Center outer locking section over outer flue pipe — push down until locking joint snaps into position.
- 4) Pull up slightly on CTD to ensure locking joint has firmly engaged.

Note: A special galvanized dipped CTD is available for added protection, for applications susceptible to corrosive environments. "Contact Superior Customer Service for details".

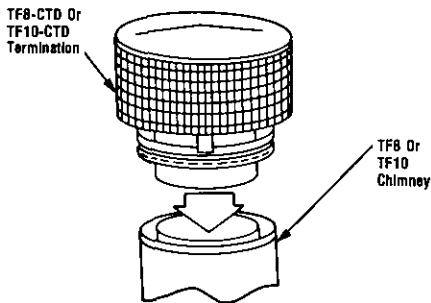


Figure 33

Using a CT1 Chose Termination

Note: Refer to specific installation instructions included with CT1 chose termination for details.

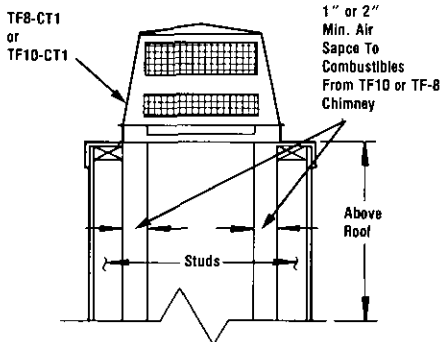


Figure 34

Note: Combustible chose components must maintain either a minimum 1" or 2" air space to the chimney sections above the roofline. A minimum 1" or 2" air space to combustibles is required below the roofline.

Using a CT2 Chose Termination

Refer to specific installation instructions included with CT2 chose termination for details.

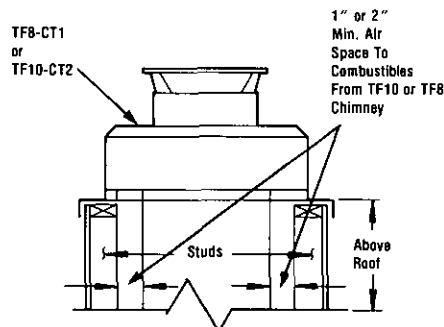


Figure 35

Note: Combustible chose components must maintain either a minimum 1" or 2" air space to the chimney sections above the roof line. A minimum 1" or 2" air space to combustibles is also required below the roofline.

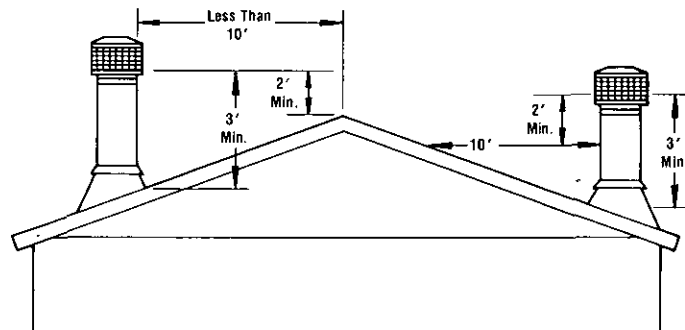


Figure 36

TEN FOOT RULE SUMMARY

The minimum chimney height above the roof is specified by all major U.S. building codes.

If the horizontal distance from the chimney edge to 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 and does not ensure smoke-free operation. Trees, buildings, adjoining rooflines, adverse wind conditions, etc., may require a taller chimney should the fireplace not draft properly (See Figure 36).

MULTIPLE TERMINATIONS

If more than one termination is located on the same chose 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 soldiered vertically at least 18" apart, from termination smoke exit to termination smoke exit. See (Figure 37) for detail.

This suggestion is in the interest of more satisfactory operation and use. If 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 HCE-4550 and 45B-N fireplace system (including fireplace and chimney components) is 15' 0" for the TF10 system and 16' 8" for the TF8 chimney system. The maximum system height is 80' for both TF10 and TF8 chimney systems.

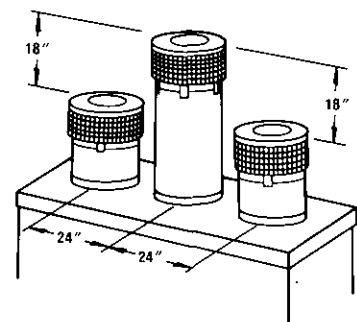


Figure 37

CONVENTIONAL HOMES

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 FLOOR 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 firestops, stabilizers, roof flashing, etc.

3. The effective heights of the components are:

HCE-4550 and 45B-N Fireplace	=	38"
CTD Termination	=	4"
CT1 Termination	=	18"
CT2 Termination	=	15" to 23"
S4 Stabilizer (required for every 30' of vertical chimney and 10' of offset chimney)	=	2 1/2"

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 number of chimney sections (quantity and length) required.

VERTICAL ELEVATION CHART — TF10 SYSTEM

Height Of Flue Only		Number TF10 Flue Lengths			Height Of Flue Only		Number TF10 Flue Lengths			Height Of Flue Only		Number TF10 Flue Lengths			Height Of Flue Only		Number TF10 Flue Lengths		
Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"	Inches	Feet	12"	18"	36"
80 1/4"	6' 8 1/4"	1		2	293 1/4"	24' 5 1/4"			8	504 1/4"	42' 0 1/4"	2		14	717 1/4"	59' 9 1/4"	1	1	20
86 1/4"	7' 2 1/4"		1	2	297 1/4"	24' 9 1/4"	2		8	510 1/4"	42' 6 1/4"	1	1	14	725 1/4"	60' 5 1/4"			21
90 3/4"	7' 6 1/4"	2		2	303 1/4"	25' 3 1/4"	1	1	8	518 1/4"	43' 2 1/4"			15	728 1/4"	60' 8 1/4"	2	1	20
96 1/4"	8' 0 1/4"	1	1	2	311 1/4"	25' 11 1/4"			9	521 1/4"	43' 5 1/4"	2	1	14	735 1/4"	61' 3 1/4"	1		21
103 3/4"	8' 7 1/4"			3	314 1/4"	26' 2 1/4"	2	1	8	528 1/4"	44' 0 1/4"	1		15	741 1/4"	61' 9 1/4"		1	21
107 1/4"	8' 11 1/4"	2	1	2	321 1/4"	26' 9 1/4"	1		9	534 1/4"	44' 6 1/4"		1	15	746 1/4"	62' 2 1/4"	2	1	21
114 1/4"	9' 6 1/4"	1		3	327 1/4"	27' 3 1/4"		1	9	539 1/4"	44' 11 1/4"	2		15	752 1/4"	62' 8 1/4"	1	1	21
120 1/4"	10' 0 1/4"		1	3	332 1/4"	27' 8 1/4"	2		9	545 1/4"	45' 5 1/4"	1	1	15	759 1/4"	63' 3 1/4"			22
124 1/4"	10' 4 1/4"	2		3	338 1/4"	28' 2 1/4"	1	1	9	552 1/4"	46' 0 1/4"			16	762 1/4"	63' 6 1/4"	2	1	21
130 3/4"	10' 10 1/4"	1	1	3	345 1/4"	28' 9 1/4"			10	555 1/4"	46' 3 1/4"	2	1	15	770 1/4"	64' 2 1/4"	1		22
138 1/4"	11' 6 1/4"			4	348 1/4"	29' 0 1/4"	2	1	9	563 1/4"	46' 11 1/4"	1		16	776 1/4"	64' 8 1/4"		1	22
141 1/4"	11' 9 1/4"	2	1	3	356 1/4"	29' 8 1/4"	1		10	569 1/4"	47' 5 1/4"		1	16	780 1/4"	65' 0 1/4"	2	1	22
149 1/4"	12' 5 1/4"	1		4	362 1/4"	30' 2 1/4"		1	10	573 1/4"	47' 9 1/4"	2		16	786 1/4"	65' 6 1/4"	1	1	22
155 1/4"	12' 11 1/4"		1	4	366 1/4"	30' 6 1/4"	2		10	579 1/4"	48' 3 1/4"	1	1	16	794 1/4"	66' 2 1/4"			23
159 1/4"	13' 3 1/4"	2		4	372 1/4"	31' 0 1/4"	1	1	10	587 1/4"	48' 11 1/4"			17	797 1/4"	66' 5 1/4"	2	1	22
165 1/4"	13' 9 1/4"	1	1	4	380 1/4"	31' 8 1/4"			11	590 1/4"	49' 2 1/4"	2	1	16	804 1/4"	67' 0 1/4"	1		23
173 1/4"	14' 5 1/4"			5	382 1/4"	31' 10 1/4"	2	1	10	597 1/4"	49' 9 1/4"	1		17	810 1/4"	67' 6 1/4"		1	23
176 1/4"	14' 8 1/4"	2	1	4	390 1/4"	32' 6 1/4"	1		11	603 1/4"	50' 3 1/4"		1	17	815 1/4"	67' 11 1/4"	2		23
183 1/4"	15' 3 1/4"	1		5	396 1/4"	33' 0 1/4"		1	11	608 1/4"	50' 8 1/4"	2		17	821 1/4"	68' 5 1/4"	1	1	23
189 1/4"	15' 9 1/4"		1	5	401 1/4"	33' 5 1/4"	2		11	614 1/4"	51' 2 1/4"	1	1	17	828 1/4"	69' 0 1/4"			24
194 1/4"	16' 2 1/4"	2		5	407 1/4"	33' 11 1/4"	1	1	11	621 1/4"	51' 9 1/4"			18	831 1/4"	69' 3 1/4"	2	1	23
200 1/4"	16' 8 1/4"	1	1	5	414 1/4"	34' 6 1/4"			12	624 1/4"	52' 0 1/4"	2	1	17	839 1/4"	69' 11 1/4"	1		24
207 1/4"	17' 3 1/4"			6	417 1/4"	34' 9 1/4"	2	1	11	632 1/4"	52' 8 1/4"	1		18	845 1/4"	70' 5 1/4"		1	24
210 1/4"	17' 6 1/4"	2	1	5	425 1/4"	35' 5 1/4"	1		12	638 1/4"	53' 2 1/4"		1	18	849 1/4"	70' 9 1/4"	2		24
218 1/4"	18' 2 1/4"	1		6	431 1/4"	35' 11 1/4"		1	12	642 1/4"	53' 6 1/4"	2		18	855 1/4"	71' 3 1/4"	1	1	24
224 1/4"	18' 8 1/4"		1	6	435 1/4"	36' 3 1/4"	2		12	648 1/4"	54' 0 1/4"	1	1	18	863 1/4"	71' 11 1/4"			25
228 1/4"	19' 0 1/4"	2		6	441 1/4"	36' 9 1/4"	1	1	12	656 1/4"	54' 8 1/4"			19	866 1/4"	72' 2 1/4"	2	1	24
234 1/4"	19' 6 1/4"	1	1	6	449 1/4"	37' 5 1/4"			13	659 1/4"	54' 11 1/4"	2	1	18	873 1/4"	72' 9 1/4"	1		25
242 1/4"	20' 2 1/4"			7	452 1/4"	37' 8 1/4"	2	1	12	666 1/4"	55' 6 1/4"	1		19	879 1/4"	73' 3 1/4"		1	25
245 1/4"	20' 5 1/4"	2	1	6	459 1/4"	38' 3 1/4"	1		13	672 1/4"	56' 0 1/4"		1	19	884 1/4"	73' 8 1/4"	2		25
252 1/4"	21' 0 1/4"	1		7	465 1/4"	38' 9 1/4"		1	13	677 1/4"	56' 4 1/4"	2		19	890 1/4"	74' 2 1/4"	1	1	25
258 1/4"	21' 6 1/4"		1	7	470 1/4"	39' 2 1/4"	2		13	683 1/4"	56' 10 1/4"	1	1	19	897 1/4"	74' 9 1/4"			26
263 1/4"	21' 11 1/4"	2		7	476 1/4"	39' 8 1/4"	1	1	13	690 1/4"	57' 6 1/4"			20	900 1/4"	75' 0 1/4"	2	1	25
269 1/4"	22' 5 1/4"	1	1	7	483 1/4"	40' 3 1/4"			14	693 1/4"	57' 9 1/4"	2	1	19	908 1/4"	75' 8 1/4"	1		26
276 1/4"	23' 0 1/4"			8	486 1/4"	40' 6 1/4"	2	1	13	701 1/4"	58' 5 1/4"	1		20	914 1/4"	76' 2 1/4"		1	26
279 1/4"	23' 3 1/4"	2	1	7	494 1/4"	41' 2 1/4"	1		14	707 1/4"	58' 11 1/4"			20	918 1/4"	76' 6 1/4"	2		26
287 1/4"	23' 11 1/4"	1		8	500 1/4"	41' 8 1/4"		1	14	711 1/4"	59' 3 1/4"	2		20					

VERTICAL ELEVATION CHART — TF8 SYSTEM

Height Of Flue Only		Number Of TF8 Flue Lengths				Height Of Flue Only		Number Of TF8 Flue Lengths				Height Of Flue Only		Number Of TF8 Flue Lengths				Height Of Flue Only		Number Of TF8 Flue Lengths				Height Of Flue Only		Number Of TF8 Flue Lengths			
Inches	Feet	12"	18"	36"	48"	Inches	Feet	12"	18"	36"	48"	Inches	Feet	12"	18"	36"	48"	Inches	Feet	12"	18"	36"	48"	Inches	Feet	12"	18"	36"	48"
10 1/4"	0' 10 1/4"	1	—	—	—	191 1/4"	15' 11 1/4"	—	1	1	3	337 1/4"	31' 5 1/4"	—	1	1	7	563 1/4"	46' 11 1/4"	—	1	1	11	749 1/4"	62' 5 1/4"	—	1	1	15
16 1/4"	1' 4 1/4"	—	1	—	—	197 1/4"	16' 5 1/4"	1	—	—	4	383 1/4"	31' 11 1/4"	1	—	1	8	569 1/4"	47' 5 1/4"	1	—	—	12	755 1/4"	62' 11 1/4"	1	—	—	16
21 1/4"	1' 9 3/4"	2	—	—	—	203 1/4"	16' 11 1/4"	1	—	—	4	389 1/4"	32' 5 1/4"	—	1	—	8	575 1/4"	47' 11 1/4"	—	1	—	12	761 1/4"	63' 5 1/4"	—	1	—	16
27 1/4"	2' 3 3/4"	1	1	—	—	207 1/4"	17' 3 3/4"	2	—	—	4	393 1/4"	32' 9 3/4"	2	—	—	8	579 1/4"	48' 3 3/4"	2	—	—	12	765 1/4"	63' 9 3/4"	2	—	—	16
33 1/4"	2' 9 3/4"	—	2	—	—	213 1/4"	17' 9 3/4"	1	1	—	4	399 1/4"	33' 3 3/4"	1	1	—	8	585 1/4"	48' 9 3/4"	1	1	—	12	771 1/4"	64' 3 3/4"	1	1	—	16
34 1/4"	2' 10 1/4"	—	1	—	—	221 1/4"	18' 5 1/4"	—	—	1	4	407 1/4"	33' 11 1/4"	—	1	1	8	593 1/4"	49' 5 1/4"	—	1	—	12	779 1/4"	64' 11 1/4"	—	1	—	16
38 1/4"	3' 2 1/4"	2	1	—	—	224 1/4"	18' 8 1/4"	2	1	—	4	410 1/4"	34' 2 1/4"	2	1	—	8	596 1/4"	48' 8 1/4"	2	1	—	12	782 1/4"	65' 2 1/4"	2	1	—	16
43 1/4"	3' 7 1/4"	1	2	—	—	233 1/4"	19' 5 1/4"	—	—	—	5	419 1/4"	34' 11 1/4"	—	—	1	9	605 1/4"	50' 5 1/4"	—	—	—	13	791 1/4"	65' 11 1/4"	—	—	—	17
46 1/4"	3' 10 1/4"	—	—	—	—	237 1/4"	19' 9 1/4"	1	1	1	4	423 1/4"	35' 3 3/4"	—	1	1	8	609 1/4"	50' 9 1/4"	—	1	—	12	795 1/4"	66' 3 3/4"	—	1	1	16
51 1/4"	4' 3 3/4"	—	1	1	—	243 1/4"	20' 3 3/4"	1	—	—	5	429 1/4"	35' 9 1/4"	1	—	—	9	615 1/4"	51' 3 3/4"	1	—	—	13	801 1/4"	66' 0 1/4"	1	—	—	17
57 1/4"	4' 9 3/4"	1	—	—	1	249 1/4"	20' 9 1/4"	—	—	—	5	435 1/4"	36' 3 3/4"	—	1	—	9	621 1/4"	51' 9 1/4"	—	1	—	13	807 1/4"	67' 3 3/4"	—	1	—	17
63 1/4"	5' 3 3/4"	—	1	—	—	254 1/4"	21' 2 1/4"	2	—	—	5	439 1/4"	36' 7 1/4"	2	—	—	9	626 1/4"	52' 2 1/4"	2	—	—	13	812 1/4"	67' 8 1/4"	2	—	—	17
68 1/4"	5' 8 1/4"	2	—	—	1	260 1/4"	21' 8 1/4"	1	1	—	5	446 1/4"	37' 2 1/4"	1	1	—	9	632 1/4"	52' 8 1/4"	1	1	—	13	818 1/4"	68' 2 1/4"	1	1	—	17
74 1/4"	6' 2 1/4"	1	1	1	—	267 1/4"	21' 3 3/4"	—	—	1	5	453 1/4"	37' 9 1/4"	—	1	1	9	639 1/4"	53' 3 3/4"	—	—	1	13	825 1/4"	68' 9 1/4"	—	—	1	17
81 1/4"	6' 9 1/4"	—	1	1	—	270 1/4"	22' 6 1/4"	2	1	—	5	456 1/4"	38' 0 1/4"	2	1	—	9	642 1/4"	53' 6 1/4"	2	1	—	13	828 1/4"	69' 0 1/4"	2	1	—	17
84 1/4"	7' 0 1/4"	2	1	1	—	279 1/4"	22' 3 3/4"	—	—	—	6	465 1/4"	38' 9 1/4"	—	—	10	651 1/4"	54' 3 3/4"	—	—	—	14	837 1/4"	69' 9 1/4"	—	—	—	18	
93 1/4"	7' 9 1/4"	—	—	—	2	284 1/4"	23' 8 1/4"	—	1	1	5	470 1/4"	39' 2 1/4"	—	1	1	9	656 1/4"	54' 8 1/4"	—	1	1	13	842 1/4"	70' 2 1/4"	—	1	1	17
98 1/4"	8' 2 1/4"	—	1	1	1	290 1/4"	24' 2 1/4"	—	—	—	6	476 1/4"	39' 8 1/4"	—	—	10	662 1/4"	55' 2 1/4"	—	—	—	14	848 1/4"	70' 8 1/4"	1	—	—	18	
104 1/4"	8' 8 1/4"	1	—	—	2	296 1/4"	24' 8 1/4"	—	1	1	6	482 1/4"	40' 2 1/4"	—	1	—	10	668 1/4"	55' 8 1/4"	—	—	1	14	854 1/4"	71' 2 1/4"	—	1	—	18
110 1/4"	9' 2 1/4"	—	1	—	2	300 1/4"	25' 0 1/4"	2	—	—	6	486 1/4"	40' 6 1/4"	2	—	—	10	672 1/4"	56' 0 1/4"	2	—	—	14	858 1/4"	71' 6 1/4"	2	—	—	18
114 1/4"	9' 6 1/4"	1	1	—	2	306 1/4"	25' 6 1/4"	1	1	—	6	492 1/4"	41' 0 1/4"	1	1	—	10	678 1/4"	56' 6 1/4"	1	1	—	14	864 1/4"	72' 0 1/4"	1	1	—	18
120 1/4"	10' 0 1/4"	1	1	—	2	314 1/4"	26' 2 1/4"	—	—	1	6	500 1/4"	41' 8 1/4"	—	1	10	686 1/4"	57' 2 1/4"	—	—	1	14	872 1/4"	72' 8 1/4"	—	—	1	18	
128 1/4"	10' 8 1/4"	—	1	2	—	317 1/4"	26' 5 1/4"	2	1	—	6	503 1/4"	41' 11 1/4"	2	1	—	10	689 1/4"	57' 5 1/4"	2	1	—	14	875 1/4"	72' 11 1/4"	2	1	—	18
131 1/4"	10' 11 1/4"	2	—	—	2	326 1/4"	27' 2 1/4"	—	—	—	7	512 1/4"	42' 8 1/4"	—	—	11	698 1/4"	58' 2 1/4"	—	—	—	15	884 1/4"	73' 8 1/4"	—	—	—	19	
140 1/4"	11' 8 1/4"	—	—	3	—	330 1/4"	27' 6 1/4"	—	1	1	6	516 1/4"	43' 0 1/4"	—	1	1	10	702 1/4"	58' 6 1/4"	—	1	1	14	888 1/4"	74' 0 1/4"	—	1	1	18
144 1/4"	12' 0 1/4"	—	1	1	2	336 1/4"	28' 0 1/4"	1	—	—	7	522 1/4"	43' 6 1/4"	1	—	11	708 1/4"	59' 0 1/4"	1	—	—	15	894 1/4"	74' 6 1/4"	—	—	—	19	
150 1/4"	12' 6 1/4"	1	—	—	3	324 1/4"	28' 6 1/4"	—	1	—	7	528 1/4"	44' 0 1/4"	—	1	11	714 1/4"	59' 6 1/4"	—	1	—	15	900 1/4"	75' 0 1/4"	—	1	—	19	
156 1/4"	13' 0 1/4"	—	1	—	—	347 1/4"	28' 11 1/4"	2	—	—	7	533 1/4"	44' 5 1/4"	2	—	11	719 1/4"	59' 11 1/4"	2	—	—	15	905 1/4"	75' 5 1/4"	2	—	—	19	
161 1/4"	13' 5 1/4"	2	—	—	3	353 1/4"	29' 5 1/4"	1	1	—	7	539 1/4"	44' 11 1/4"	1	1	—	11	725 1/4"	60' 5 1/4"	1	1	—	15	911 1/4"	75' 11 1/4"	1	1	—	19
167 1/4"	13' 11 1/4"	1	—	—	3	360 1/4"	30' 0 1/4"	—	—	1	7	546 1/4"	45' 6 1/4"	—	—	11	732 1/4"	61' 0 1/4"	—	1	—	15	918 1/4"	76' 6 1/4"	—	—	1	19	
174 1/4"	14' 6 1/4"	—	1	3	—	363 1/4"	30' 3 3/4"	2	1	—	7	549 1/4"	45' 9 1/4"	2	1	—	11	735 1/4"	61' 3 3/4"	2	1	—	15	924 1/4"	76' 9 1/4"	2	1	—	19
177 1/4"	14' 9 3/4"	2	1	—	3	372 1/4"	31' 0 1/4"	—	—	—	8	558 1/4"	46' 6 1/4"	—	—	12	744 1/4"	62' 0 1/4"	—	—	—	16	930 1/4"	77' 6 1/4"	—	—	—	20	
186 1/4"	15' 6 1/4"	—	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Installation Instructions

OFFSET CALCULATIONS

1. Use Offset Charts to determine amount of horizontal offset (A) and height (B) for various flue pipe sections assemblies.
2. Use "Height of Flue Only" column on Vertical Elevation Chart 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 23 and 24) and stabilizers as shown in (Figure 28).

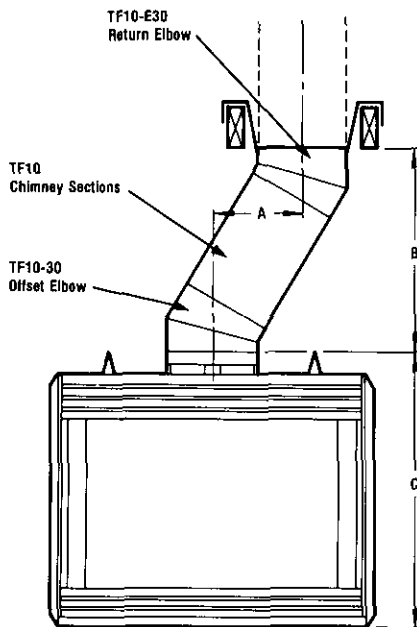


Figure 38

OFFSET ELBOW INSTALLATIONS

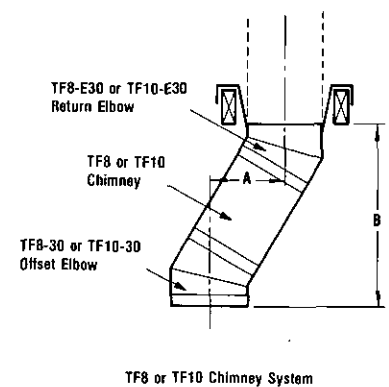
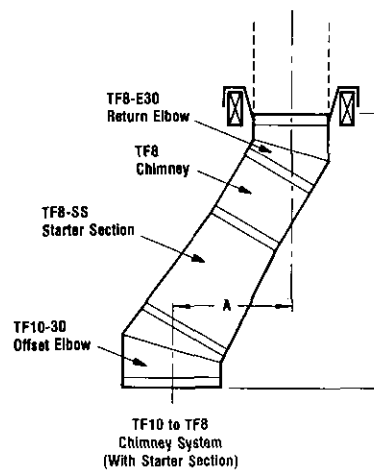
Special Offset Instructions

To clear any overhead obstructions, you may offset your chimney system using Superior 30° offset and return elbows (Models TF8-30, TF10-30 and TF8-E30). Use two elbows — an offset elbow to initiate the offset and a return elbow to terminate it.

When offsetting directly off the fireplace, always use a TF10-30 offset elbow. The TF8-SS Starter Section may then be used to convert the TF8 (8" chimney system).

TF8 OFFSET ELEVATION CHART (WITH TF8-SS STARTER SECTION)

A Inches	B Inches	TF10-30 10" Offset Elbow	TF8-E30 8" Return Elbow	TF8-SS Starter Section	TF8-8 12" Flue	TF8-8 18" Flue	TF8-8 36" Flue	TF8-8 48" Flue	A Inches	B Inches	TF10-30 10" Offset Elbow	TF8-E30 8" Return Elbow	TF8-SS Starter Section	TF8-8 12" Flue	TF8-8 18" Flue	TF8-8 36" Flue	TF8-8 48" Flue
13 1/4	32 1/2	1	1	1	—	—	—	—	45 1/4	87	1	1	1	—	1	—	1
19	41	1	1	1	1	—	—	—	47 1/2	91	1	1	1	—	2	1	—
22	46 1/4	1	1	1	—	1	—	—	48 1/4	92 1/4	1	1	1	—	—	2	—
24 1/2	50 1/4	1	1	1	2	—	—	—	49 1/4	94 1/4	1	1	1	2	1	1	—
27 1/4	56	1	1	1	1	1	—	—	52	98 1/4	1	1	1	1	4	—	—
30 1/4	61	1	1	1	—	2	—	—	53 1/2	101 1/4	1	1	1	1	—	2	—
31	62 1/2	1	1	1	—	—	1	—	54 1/4	102 1/4	1	1	1	—	—	1	1
32 1/2	65	1	1	1	2	1	—	—	55 1/4	105 1/4	1	1	1	—	3	1	—
35 1/2	70 1/4	1	1	1	1	2	—	—	56 1/2	106 1/2	1	1	1	—	1	2	—
36 1/2	71 1/2	1	1	1	1	1	—	—	58 1/4	110 1/2	1	1	1	2	—	2	—
37	72 1/4	1	1	1	—	—	1	—	59 1/2	111 1/4	1	1	1	1	—	1	1
38 1/2	75 1/2	1	1	1	—	3	—	—	60 1/4	113	1	1	1	—	—	—	2
39 1/4	76 1/4	1	1	1	—	1	1	—	61 1/4	115 1/4	1	1	1	1	1	2	—
41 1/2	80 1/4	1	1	1	2	—	1	—	64 1/4	120 1/4	1	1	1	—	2	2	—
42 1/4	81 1/4	1	1	1	1	—	—	1	65 1/2	122 1/4	1	1	1	1	—	—	2
44 1/2	85 1/4	1	1	1	1	1	1	—	67	124 1/4	1	1	1	2	1	2	—



TF8 or TF10 Chimney System

TF8 OR TF10 OFFSET ELEVATION CHART

A Offset (Inches)	B Height (Inches)	TF8/ 10-30 Offset Elbow	TF8/ 10-30 Return Elbow	TF8/ 10-30 Stabilizer	TF8/10 12" Flue Length	TF8/10 18" Flue Length	TF8/10 36" Flue Length	TF8/ 48" Flue Length	A Offset (Inches)	B Height (Inches)	TF8/ 10-30 Offset Elbow	TF8/ 10-30 Return Elbow	TF8/ 10-30 Stabilizer	TF8/10 12" Flue Length	TF8/10 18" Flue Length	TF8/10 36" Flue Length	TF8/ 48" Flue Length
4 1/4	15	1	1	—	—	—	—	—	59	110 1/4	1	1	—	—	1	—	2
9 1/4	25	1	1	—	1	—	—	—	61 1/4	114 1/4	1	1	—	1	—	3	—
12 1/4	30 1/4	1	1	—	—	1	—	—	62 1/2	117	1	1	1	1	—	3	—
14 1/4	34 1/4	1	1	—	2	—	—	—	65 1/4	122	1	1	1	—	1	3	—
17 1/4	39 1/4	1	1	—	1	1	—	—	67 1/4	125 1/4	1	1	1	2	—	3	—
20 1/4	44 1/4	1	1	—	—	2	—	—	69 1/4	128 1/4	1	1	1	—	1	—	2
21 1/4	46	1	1	—	—	—	1	—	70 1/4	131	1	1	1	1	1	3	—
23	48 1/4	1	1	—	2	1	—	—	73 1/4	136 1/4	1	1	1	—	2	3	—
26	53 1/4	1	1	—	1	2	—	—	75 1/4	139	1	1	1	—	—	—	3
26 1/4	55	1	1	—	1	—	1	—	79 1/4	146 1/4	1	1	1	1	—	4	—
27 1/4	56 1/4	1	1	—	—	—	1	—	80 1/4	148	1	1	1	1	—	—	3
29	59	1	1	—	—	3	—	—	82 1/4	151 1/4	1	1	1	—	1	4	—
29 1/4	60 1/4	1	1	—	4	1	—	—	83 1/4	153 1/4	1	1	1	1	—	—	3
32	64	1	1	—	2	—	1	—	85	155 1/4	1	1	1	2	—	4	—
32 1/4	65 1/4	1	1	—	1	—	—	1	88	160 1/4	1	1	1	1	1	4	—
35	69 1/4	1	1	—	1	1	—	—	91	166	1	1	1	—	2	4	—
35 1/4	70 1/4	1	1	—	—	1	—	1	92 1/4	168 1/4	1	1	1	—	—	1	3
38	74 1/4	1	1	—	—	2	1	—	93 1/4	170	1	1	1	2	1	4	—
38 1/4	75 1/4	1	1	—	—	—	2	—	97	176 1/4	1	1	1	1	—	5	—
40 1/4	78 1/4	1	1	—	2	1	—	—	98 1/4	179 1/4	1	1	1	—	—	—	4
42 1/4	82 1/4	1	1	—	1	4	—	—	100	181 1/4	1	1	1	—	1	5	—
44	84 1/4	1	1	—	1	—	2	—	102 1/4	185 1/4	1	1	1	2	—	5	—
44 1/4	86 1/4	1	1	—	—	1	1	—	105 1/4	190 1/4	1	1	1	1	1	5	—
46 1/4	88 1/4	1	1	—	—	3	1	—	106 1/4	193 1/4	1	1	1	—	1	—	4
47	90	1	1	—	—	1	2	—	108 1/4	196	1	1	1	—	2	5	—
49 1/4	94	1	1	—	2	—	2	—	110 1/4	199 1/4	1	1	1	2	1	5	—
50	95 1/4	1	1	—	—	1	1	—	111 1/4	204 1/4	1	1	1	1	—	6	—
50 1/4	96 1/4	1	1	—	—	—	2	—	115 1/4	209	1	1	1	—	—	1	4
52 1/4	99 1/4	1	1	—	1	1	2	—	117 1/4	211 1/4	1	1	1	—	1	6	—
55 1/4	104 1/4	1	1	—	—	2	2	—	119 1/4	215 1/4	1	1	1	2	—	6	—
56	105 1/4	1	1	—	1	—	—	2	121 1/4	219 1/4	1	1	1	—	—	—	5
57 1/4	108 1/4	1	1	—	2	1	2	—									

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE

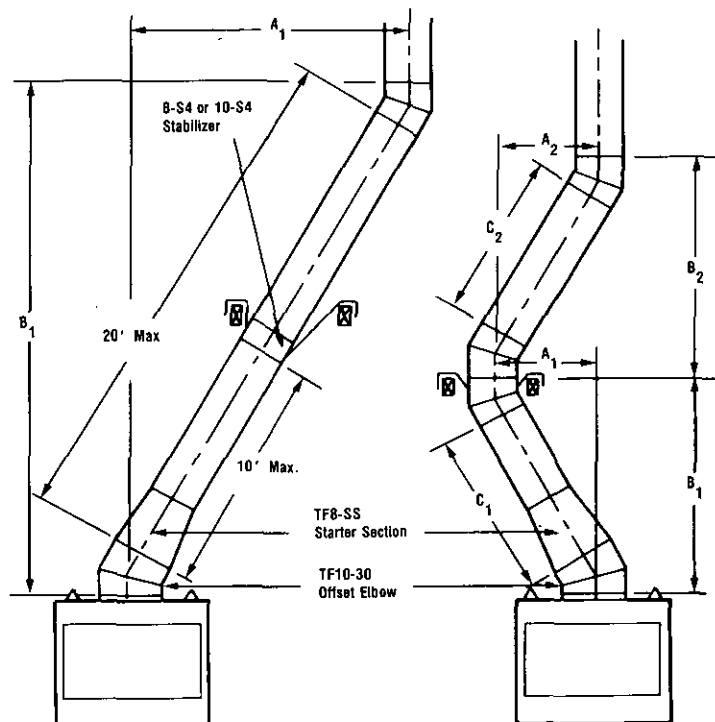


Figure 39

The offset and return elbow may be attached together, or a section or sections of chimney in between may be used, but do not exceed 20' in total length between elbows. (see Figure 39). If sections of pipe exceed 10' between elbows, a chimney stabilizer must be used at the 10' point. The stabilizer support straps must be securely attached under tension (in shear) to structural framing members above (see Figure 28). When two sets of elbows are used, the maximum combined length of chimney used between each set of elbows cannot exceed 20' (see Figures 40 and 41). Example: If $C_1 = 10'$ then C_2 cannot exceed 10'. A 30° offset elbow, angling in any direction, may be the first piece of flue pipe off the top of the fireplace flue collar.

Maximum offset of 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'.

Return elbow support straps must be securely attached under tension (in shear) to structural framing members above (Figure 42, Page 12). Do not substitute a TF8-30 or TF10-30 offset elbow in place of a TF8-E30 return elbow.

TO INSTALL OFFSETS

First, review chimney offset elevation chart and Figure 38 on page 11 for reference.

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

Figure 40

Measure height to the ceiling from top of fireplace - dimension "B". Use Offset Elevation Chart to find dimension "A". Mark point where you will drive your nail to show the centerpoint 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 the pitch of the roof.

OFFSET ELBOW ASSEMBLY

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

RETURN ELBOW ASSEMBLY

Return elbows install the same as stabilizers and round contemporary terminations. Follow these steps:

- 1) Hold unitized return elbow over top of last chimney section.
- 2) Center inner slip section into inner flue pipe — slip down.
- 3) Center outer locking section over outer flue pipe — push down until locking joint snaps into position.

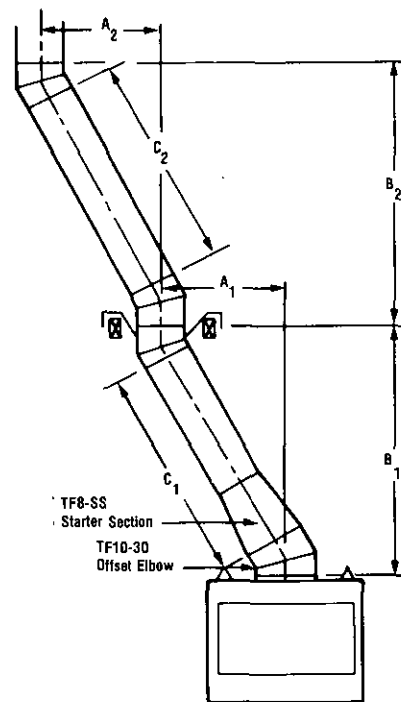


Figure 41

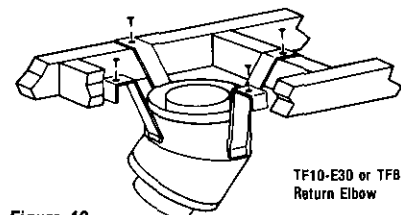


Figure 42

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

Remember, all offset and return elbows and any chimney in between must be installed to maintain at least 1" or 2" air space to combustible materials.

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

OR 15° OFFSET/ RETURN ELBOWS

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

CHIMNEY OFFSET 30° THRU FLOOR OR CEILING

It may be necessary to construct the chimney at 30° when passing through the floor or ceiling area. Use 30° angled firestops as shown in (Figures 43 and 44). Support the chimney at floor or ceiling penetration with stabilizer if distance below the ceiling is 10' or more. Maintain 1" or 2" minimum air space to combustibles from chimney sections.

Installation Instructions

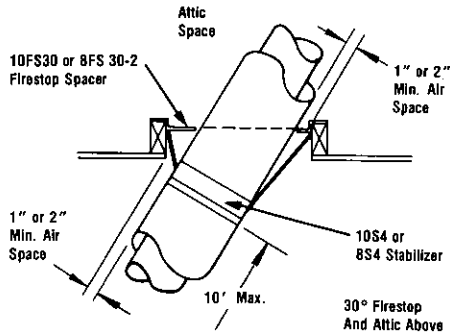


Figure 43

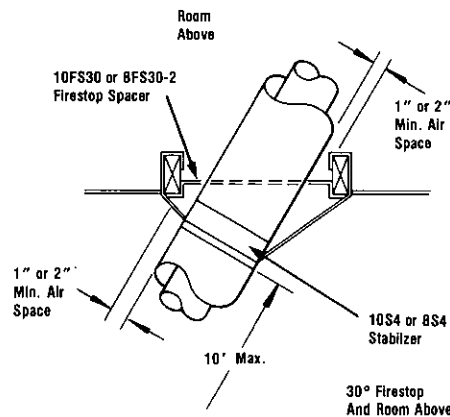


Figure 44

ACCESSORIES

Optional Glass Door Assembly

If glass doors are to be installed on this fireplace, refer to specific installation instructions packed with glass doors. Superior glass doors, Model Numbers 43GD, 43GD-AB, 45BFE-AB and 45H-GDPB are for use only with Superior's HCE-4550 and 45B-N fireplace. Use of any other glass door on this fireplace may constitute a potential fire hazard. Glass and metal frames get hot — always use wood handles to open and close.

Optional Combustion (Fresh) Air System

Use Combustion Air Kit Model AK-4 or AK-4LD with Superior's HCE-4550 and 45B-N fireplace.

GENERAL INFORMATION

When used, outside air drawn into the fireplace supplies air to the fire for combustion. Only one combustion air duct on left side of the fireplace is required, if installed. The combustion air duct CAN NOT be installed after the fireplace has been installed.

If additional length of duct is required, use locally available aluminum ducting. The duct may be extended up to 50' in any direction.

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

There is one hand operated shut-off damper at the left of the firebox opening inside the fireplace. To open, pull out all the way. The combustion air damper should be fully open when fireplace is being operated. When the fireplace is not in use, fully close the combustion air damper to prevent cold air from entering your home.

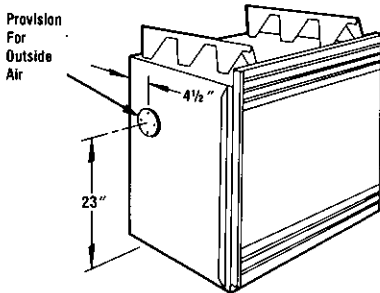


Figure 45

TO INSTALL:

Reference installation instructions supplied with Model AK-4.

Never locate inlet where it can be blocked by shrubs, snow drifts, etc. Never locate in garage or any area where there is another fuel burning appliance or products emitting combustible gasses such as paint, gasoline, etc. In cold climates, it is recommended that the combustion air duct be insulated. If fireplace is to be installed diagonally in a corner it may be necessary to use the TOB adapter in conjunction with the AK-4 Air Kit (Refer to Figure 47).

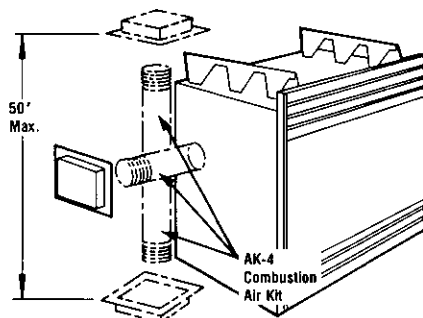


Figure 46

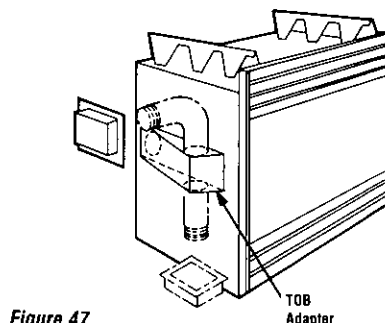


Figure 47

Outside combustion air ducting may be installed upwards, or vertically, through framing and ceiling joists, with the hood installed through an outside wall or ducting may be installed downwards, through floor joists, and under the floor of the home. Ducting may be installed into a basement area, not considered part of the living area of the home.

FORCED AIR KIT

If you are installing a Superior Forced Air Kit, Model FAK-1500, see the instruction sheet provided in the kit for electrical wiring requirements. The fireplace has been prewired at the factory to accept the forced air kit at some later time. The fireplace must, however, be connected to main power supply at time of installation if the FAK-1500 is to be installed later.

FIREPLACE FINISHES, HEARTH EXTENSIONS, WALL SHIELDS

Framing

It's best to frame your fireplace after it is positioned, the chimney and the combustion air kit, if applicable, is installed. Frame with 2 x 4's (or heavier) lumber. Frame in accordance with local prevailing building codes.

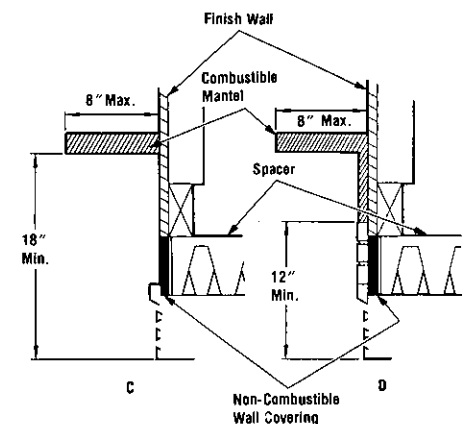
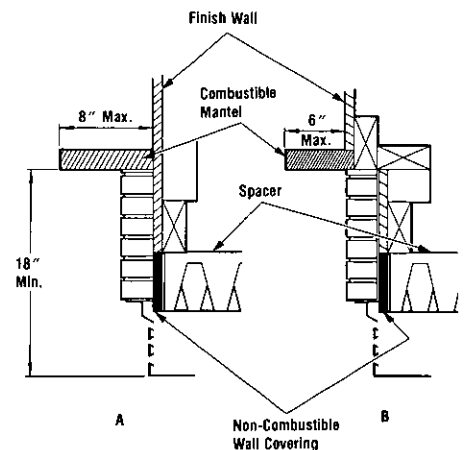


Figure 48

Note: The header may rest on the top metal spacers, but must not be notched to fit around them.

To install the fireplace facing flush with the finished wall, position framework to accommodate the thickness of the finished wall (Figures 48, A, B, and C).

To install the fireplace facing flush with surround materials, position framework to accommodate the thickness of the final surround materials (Figure 48D).

GAS LINE

This provision is intended for connection to a decorative gas appliance, only in accordance with the National Fuel Gas Code, ANSI Z 223.1-1980.

If you're installing a gas line, connect it now. The gas knock out location is determined by a 1 1/8" round indentation located at the bottom and slightly off center on the side refractories. THE KNOCK OUT IS ALWAYS TO BE REMOVED FROM INSIDE THE FIREBOX. If removal is attempted from the outer wrapper into the firebox, side refractory damage may occur. With a medium-sized hammer, lightly tap the surface of the indentation. The refractory material is very thin in the area of the indentation, and can be easily removed. Once a small hole is made in the knock out, continue to tap lightly until the desired diameter is obtained. The knock out area can be removed to a total diameter of 1 1/8"; however, the entire knock out does not have to be removed. With the refractory knock out removed to the desired diameter, remove knock out on outer wrapper and install gas line. Use only 1/2" black iron pipe through fireplace wall for connection to a gas log unit inside the firebox. Outside, the iron pipe connects to a gas shut off valve recessed flush into a wall or floor and controlled by a removable valve key for safety.

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

IMPORTANT: Re-pack insulation in square hole around gas line to seal.

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, seal all cracks around fireplace with non-combustible material and wherever cold air could enter room. It's especially important to insulate outside chase cavity between studs and under floor on which fireplace rests, if floor outside is above ground level. Surround material must be caulked where it meets the black metal face of the fireplace to avoid air intrusion. Use non-combustible caulking material only on fireplace facing, to seal. Also the outside air inlet duct should be insulated to minimize formation of condensation.

Do not place insulation materials against chimney system.

HEARTH EXTENSIONS/ WALL SHIELDS

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

- The hearth extension must extend beyond the front and both sides of the fireplace opening per the dimensions in the chart accompanying (Figure 49). Use the metal hearth extension (Model HE-36 for the HCE-4550 and 45B-N) manufactured by Superior Fireplace Company, or a 1/2" thickness of millboard or a durable non-combustible material with equal or greater insulating value than $K = .84 \text{ BTU-IN./ SQ.FT.-HR.-}^{\circ}\text{F.}$ These materials should be covered by a decorative non-combustible material.

CAUTION: FIREPLACE MUST BE RAISED IF HEIGHT OF HEARTH EXTENSION EXCEEDS 1 1/2" ABOVE BOTTOM OF FIREPLACE (FIGURE 52).

- 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.

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

• WARNING: WHEN INSTALLING THE HEARTH EXTENSION BE CAREFUL NOT TO BLOCK THE HEAT CIRCUATING AIR INLETS (FIGURE 52)

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

- If a side wall is closer than 18" to the fireplace opening, a wall shield is required. Use metal wall shields (Model No. WS40) manufactured by Superior Fireplace Company or construct with a 40" x 40" x 1/2" 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 perpendicular wall be closer than 8" to the fireplace opening.

HEARTH EXTENSION DIMENSIONS

Letter	Models
	HCE-4550, 45B-N
A	20"
B	43"
C	12"

- If fireplace is installed diagonally, across a 90° corner, no wall shields are required (Figure 17).

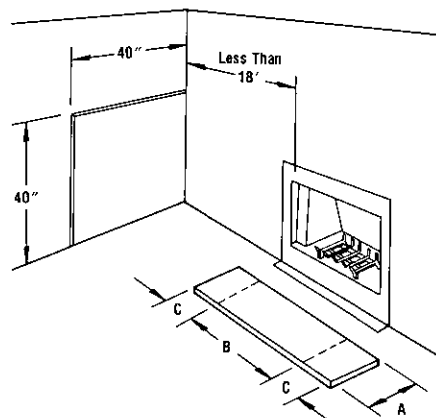


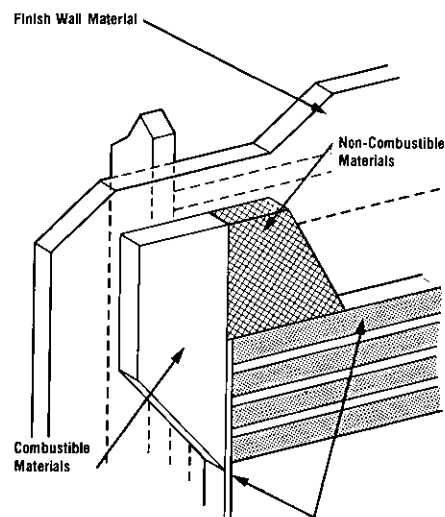
Figure 49

- For information regarding non-combustible materials and construction details, contact Superior Fireplace Company, Customer Service Department.

FINISH TO YOUR TASTE:

There are a wide variety of "finished looks" for your Superior fireplace — from formal wall treatments to mantels to rustic wood paneling to warm brick facing.

Non-combustible materials can be used to frame the fireplace top flush. Combustible materials can be used at the sides. (Figure 50) Combustible materials can project beyond the fireplace opening at the sides as long as they are kept within the shaded area as illustrated in Figure 51.



Note: Refer to HTK-AB or HTK-PB Horizontal Trim Kit Instructions Before Finishing For Proper Use Of These Trim Accessory Pieces.

Figure 50

CAUTION: SEAL ALL JOINTS BETWEEN FIREPLACE FACING AND WALL SURROUNDS WITH A NON-COMBUSTIBLE MATERIAL.

Installation Instructions

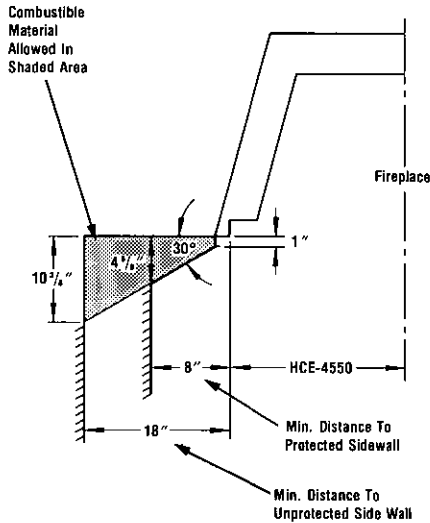


Figure 51

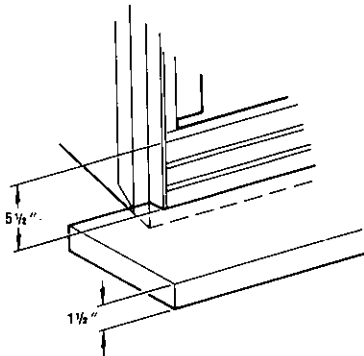


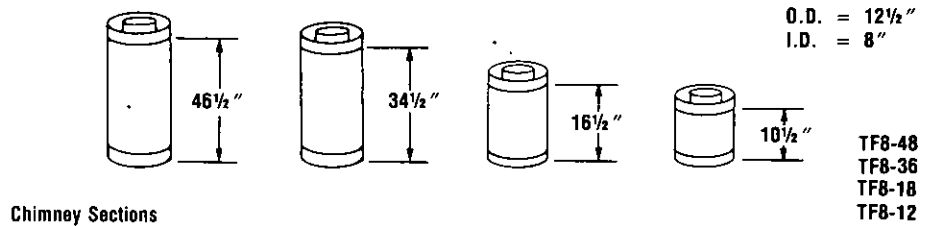
Figure 52

SUPERIOR ACCESSORY PARTS COMPONENTS LIST

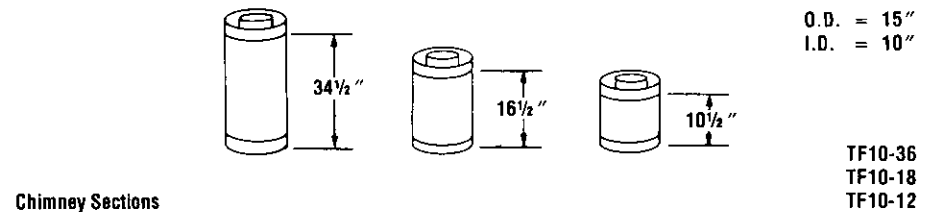
The following accessory parts and components are to be used only with your Superior fireplace system. Separate installation instructions are packaged separately with all glass doors, combustion air kits, forced air fan kits, chimney top terminations, and the manufactured home chimney pack.

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

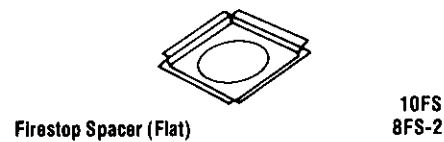
SUPERIOR FIREPLACE COMPANY
SPECIAL SERVICES COORDINATOR
4325 Artesia Ave.
Fullerton, California 92633
714-521-7302



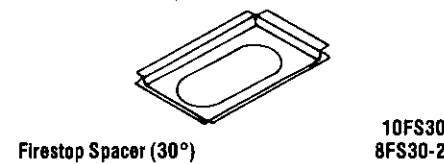
Chimney Sections



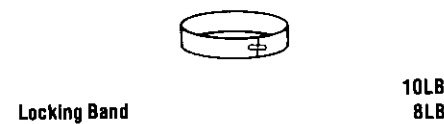
Chimney Sections



Firestop Spacer (Flat)



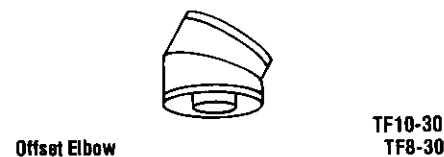
Firestop Spacer (30°)



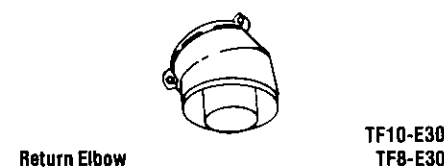
Locking Band



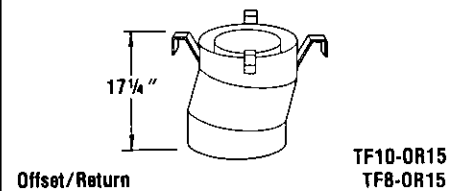
Storm Collar



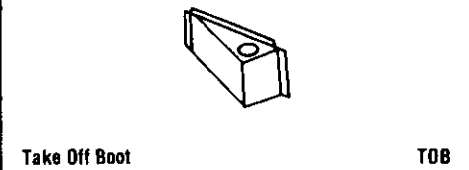
Offset Elbow



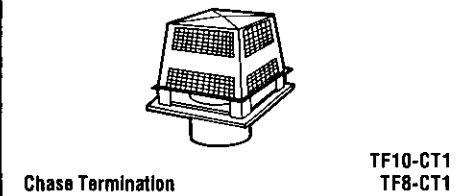
Return Elbow



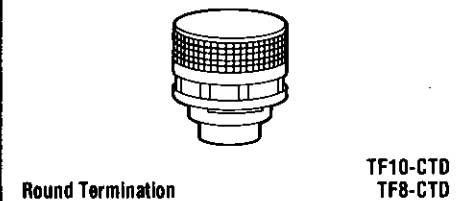
Offset/Return



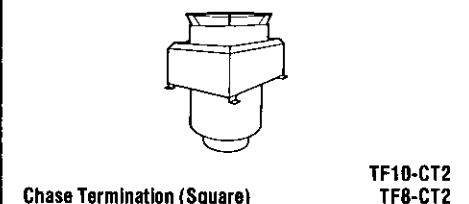
Take Off Boot



Chase Termination

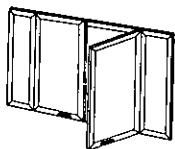


Round Termination



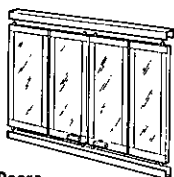
Chase Termination (Square)

NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE



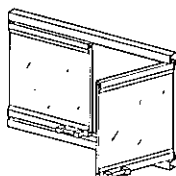
Glass Doors (Twin Pane)

43GD
43GD-AB



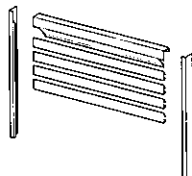
Bi-Fold Glass Doors

45BFE-AB



Glass Doors (All-Glass)

45H-GDPB



Horizontal Trim Kit

45HTK-PB



Horizontal Trim Kit

45HTK-AB



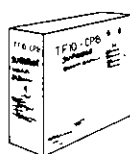
Vertical Trim Kit
(BF Doors)

VTK-BFE



Vertical Trim Kit
(GD Doors)

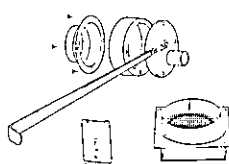
VTK-GDE



Chimney Pack
Conventional

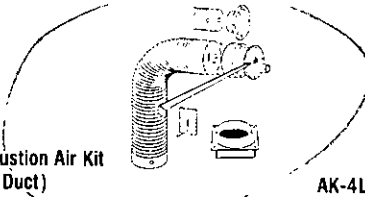
TF10-CP8

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



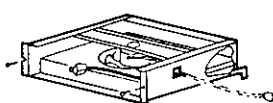
Combustion Air Kit

AK-4



Combustion Air Kit
(Less Duct)

AK-4LD



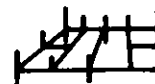
Forced Air Kit

FAK-1500



Stabilizer

TF8-S4
TF10-S4



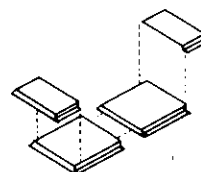
Steel Grate

SGR-3843



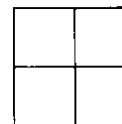
Flashing

10F6
10F12
10F60



Hearth Extensions

HE-36



Wall Shield

WS40



Refractory Patch Kit

RPK



Refractory Tint Kit

RTK

Superior reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products.

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The Fireplace Company
A MOBEX Subsidiary

LA FIAMA-II 42GC-II/ & EL TORO 42C

An ideal solution for the hard to please homeowner. The LaFiama 42GC-II and El Toro 42C provide the size and appearance of a large custom built fireplace and yet can be installed in less than 10 sq. ft. of valuable floor space. They are UL listed for use with two wall flue, for economical-minded multifamily projects.

When fitted with the factory outside air kit, which feeds the fire with combustion air, the systems become a source of warmth and beauty without sacrificing your warm room air.

Design engineered to compliment both small and large living spaces, these full brick refractory lined fireplaces are the perfect alternative for designers and builders. The left and right

side gas knockout plug, low profile and 'FULL-VIEW'™ glass doors allows the freedom designers need for unlimited expression of design.

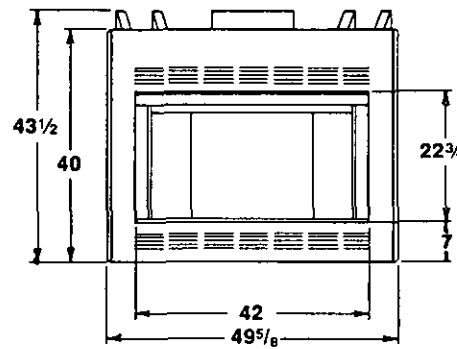
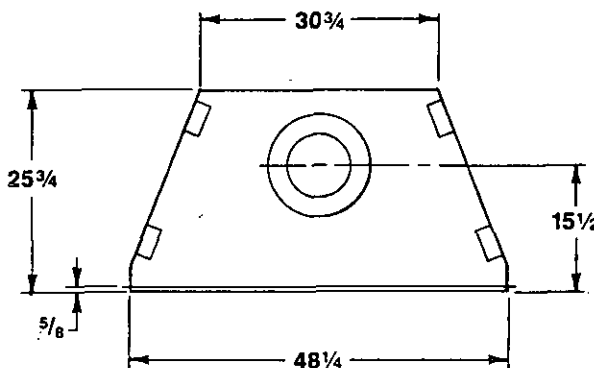
FMI designs, engineers, and manufactures zero clearance fireplace systems which are unsurpassed in quality, ambiance and versatility. We make a fireplace to fit any building requirement.



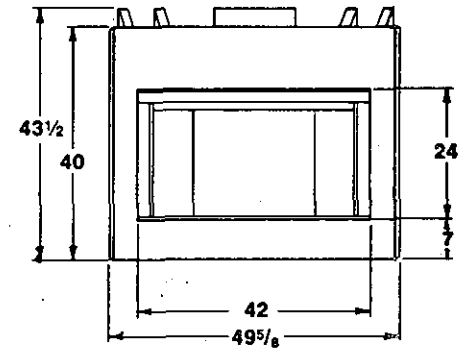
Listed by Underwriters
Laboratories, Inc.
File No. MHT1306

Note: Dimensions on this catalog sheet are approximate. For accurate dimensions, refer to the installation instructions.

specifications



The La FIAMA-II
42 GC-II



EL TORO
42 C

features

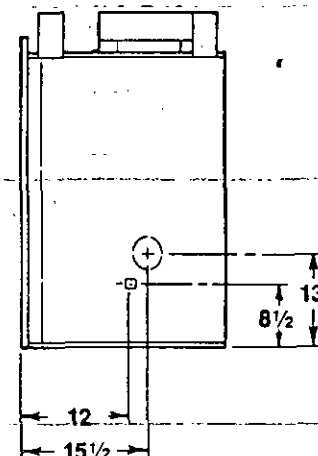
All code approved systems.
Available in two wall snap lock.

Durable, high quality satin black finish.

Standard with grate.

Optional "FULL-VIEW"™ glass doors accentuate the fireplace's beauty and appeal.

Framing
Dimensions
44" High
48 3/4" Wide
25 5/8" Deep



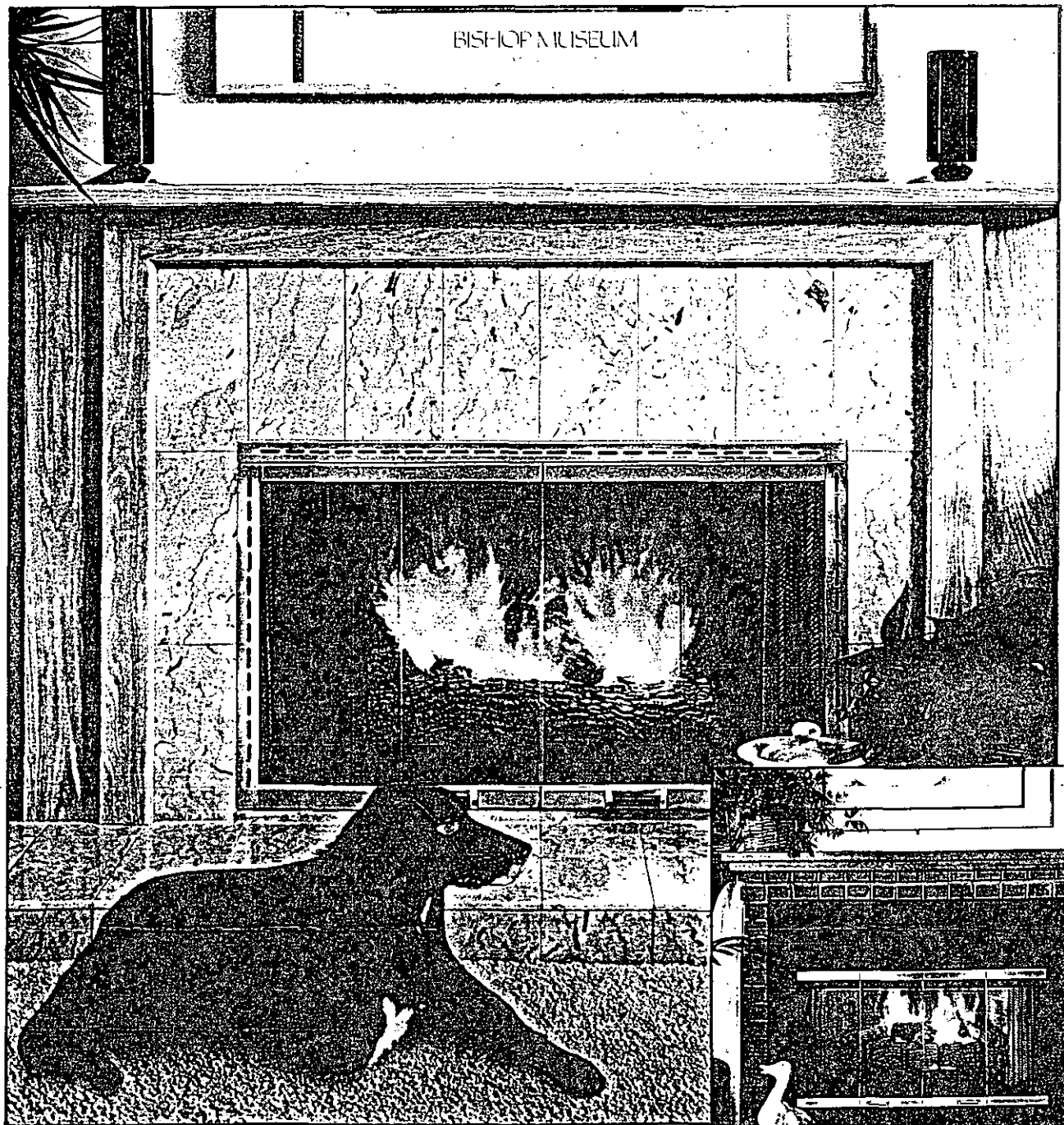
fmi **Fireplace
Manufacturers
Incorporated**

*The Symbol of
Excellence*

FIREPLACES UNLIMITED

1854 US ROUTE 9
Distributed by: TOMS RIVER, NJ 08753
201-244-1800

EL TORO/LA FIAMA-II



Glass door frame shown in optional brass.



**Fireplace
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TOWNSHIP OF
BRICK NJ

12/06/89 NO. 5

0004

5937**

BLOCK 0.00

BLOCK 0.00

1087.69 #

LOT 0.00

10 #

BUILDING 15.00

FIRE 30.00

C / O 20.00

PLAN RVW 5.00

TOTAL 70.00

CASH 70.00

CHANGE 0.00

0004A005 11:47
