INSTALLING YOUR
MARCO WOOD-BURNING
FIREPLACE



ARCHITECT'S SEE-THROUGH 36 INCH FIREPLACE MODEL 792771 (DWF 36-ST)

CHECK LOCAL CODES PRIOR TO INSTALLATION

OPTIONAL FEATURES: OUTSIDE AIR

THIS MANUAL PROVIDES ALL THE INSTRUCTIONS NECESSARY FOR THE BUILDER OR HOMEOWNER TO INSTALL, THE MODEL 792771 MARCO FIREPLACE SAFELY AND EFFICIENTLY IN A RESIDENTIAL OR MOBILE HOME. IT ALSO PROVIDES INFORMATION ON HOW TO ORDER REPAIR PARTS WHEN NEEDED.

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THIS SYMBOL ON THE PRODUCT MEANS IT IS LISTED BY UNDERWRITERS LABORATORIES, INC.

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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.

KEEP YOUR FIREPLACE SAFE

NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, CHARCOAL LIGHTER FLUID OR SIMILAR LIQUIDS TO START OR "FRESHEN-UP" A FIRE IN THE FIREPLACE. KEEP ALL SUCH LIQUIDS WELL AWAY, FROM THE FIREPLACE.

ACCESSORIES

FIREPLACE GRATE

This unit has been equipped with a grate designed to keep the operation of your fireplace efficient and safe. Do not attempt to defeat its purpose. The size and position of the grate was engineered to give the ideal combustion characteristics for the fire. By keeping your logs within the grate and not on the hearth, you will prevent the chance of having a log "spill" or roll out of the fireplace. DO NOT OVERLOAD THE FIREPLACE. Piling excessive wood on your grate will not increase efficiency and could possibly cause smoke to enter your room. Keep the hearth area under the grate free of excessive ash build-up to allow a free flow of air for the fire.

OUTSIDE AIR:

This fireplace has an optional outside air kit available for installation. The standard outside air kit must be installed during the installation of the fireplace (see Pages 4 & 5).

INSTALLATION INSTRUCTIONS

INTRODUCTION

- Before beginning the Installation of your fireplace, read through these instructions and the instructions contained in the separate Operation Manual.
- This MARCO fireplace and components are safe when installed according to this Installation Manual. Unless you use MARCO components which have been designed and tested for the fireplace system, you may cause a fire hazard.
- This MARCO fireplace may be installed in a conventional home and modular manufactured home. In addition, this unit may also be installed in a mobile home. (See Instructions on page 17).
- The MARCO warranty will be voided by, and MARCO disclaims any responsibility for, the following actions:
 - a) Modification of the fireplace and/or components, including assembly of chimney, glass doors, air inlet system and damper control.
 - Use of any component part not manufactured or approved by MARCO in combination with a MARCO fireplace system.
 - c) installation other than as instructed in this manual.
 - d) Use of an insert in a MARCO fireplace.
- PROPER INSTALLATION is the most important step in ensuring safe, long-term operation of this fireplace. Consult the local building codes as to the particular requirements concerning installation of all factory-built fireplaces. Although grounding may not be required by code, it is recommended by the manufacturer.

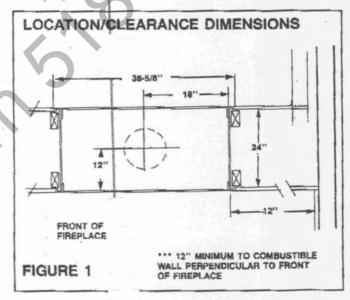
This fireplace is not intended to be used as a substitute for a furnace to heat an entire home. Use for supplementary heating only.

SELECTING YOUR FIREPLACE LOCATION

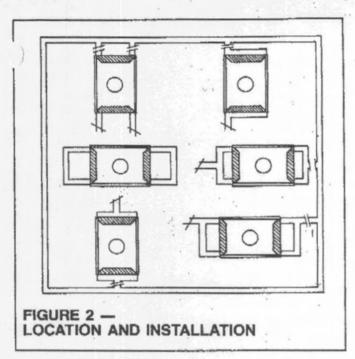
To determine the safest and most efficient location for your fireplace, consider such factors as room traffic, location of doors and windows, and construction above and below the installation area. The fireplace may be installed in any location that is free of air conditioning ducts, electrical wiring and plumbing. This location must also provide the necessary clearances.

CLEARANCES

 A fireplace must not be installed closer than 12 inches to any unprotected combustible wall perpendicular to the fireplace opening (Figure 1).



- When installed in accordance with the instructions given in this manual, the fireplace system may touch combustible materials at the pottom. The lower frame can be covered almost to the level of the hearth. The vent must remain unobstructed. "all space is required on sides of fireplace, except at the nailing flange along the front edge on each side, where the clearance is 0". The chimney system requires 2" minimum air space.
- A fireplace may be installed flush with the finished wall or projecting any distance into the room. Flush installation is recommended for smooth or thin wall-facing materials. By installing the fireplace to project into the room, a shallower cavity is required to contain the fireplace; thicker natural materials, such as field stone, can then be used for face material (Figure 2).



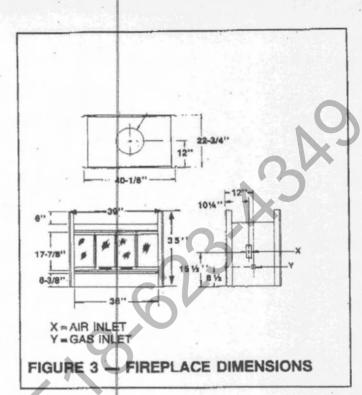
 A location that requires cutting the least number of joists, roof rafters, and floor joists will reduce costs and make installation easier. This may mean moving only one or two inches from the selected ideal location. Any location selected must allow adequate room to accommodate the fireplace and framing dimensions shown in Figures 3 & 4.

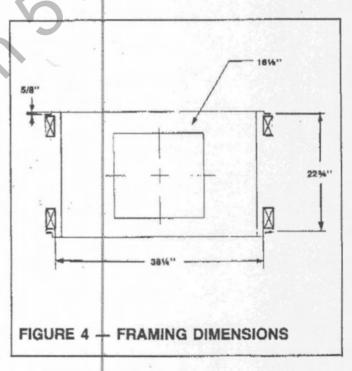
Do not place the fireplace on soft-surfaced floor coverings such as carpeting. The mounting surface must be flat and hard (such as plywood, wood flooring, particle board or any other hard-surfaced material), and support the total base of the fireplace evenly. A raised platform may be used to support the fireplace.

- When a fireplace is installed on a combustible floor, a noncombustible hearth extension must be provided to protect the floor in front of the opening. (Refer to Hearth Extension, Pages 10, 11, & 12).
- See ICBO ES Evaluation Report No. 2578 for allowable values and/or conditions of use concerning material presented in this document.

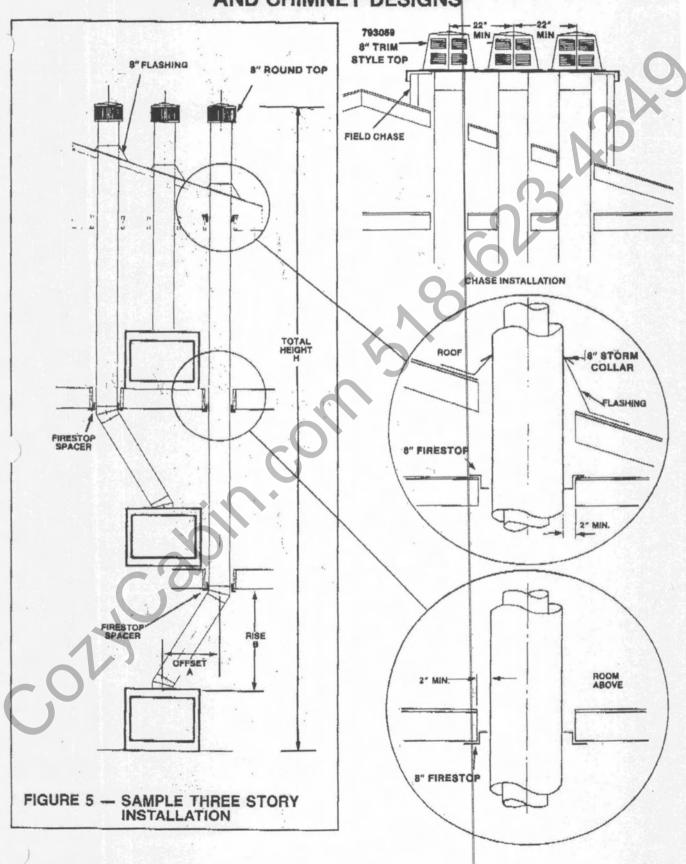
FRAMING INSTRUCTIONS

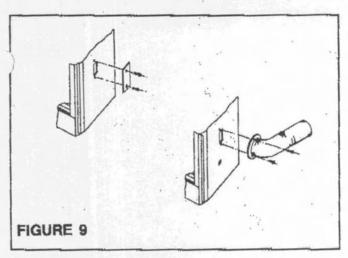
Framing around the fireplace (flush or projected) can be designed to incorporate book shelves, wood bins, closets, etc.





EXAMPLES OF FIREPLACE AND CHIMNEY DESIGNS





STEP 1C: Connect the opposite end of the air duct to the eyebrow (see Basic OAK Installation Instructions for details).

OUTSIDE COMBUSTION AIR

For outside combustion air, open the airgate before starting a fire.

Outside air drawn into the fireplace supplies air to the fire for combustion. When the fireplace is not in use, close the airgate to prevent cold air from entering your home. Check the intake screen periodically to be sure it is clear of debris.

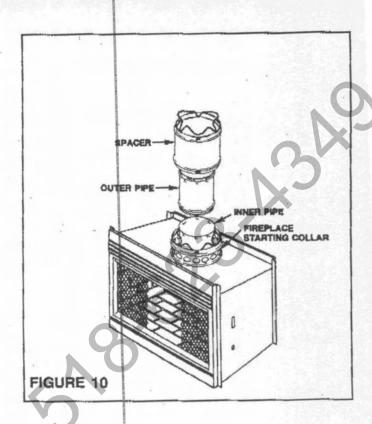
VISTALLING YOUR DOUBLE-WALL CHIMNEY SYSTEM

Each double-wall chimney section consists of an outer pipe, flue pipe and single-piece wire spacer. The pipe sections are not unitized and must be assembled independently as the chimney is installed.

STEP 1: When starting the chimney directly on the fireplace, install the inner pipe section by fitting the male end into the inner fireplace starting collar. Make sure the male end is fully inserted to lock into the lances. (Figure 10).

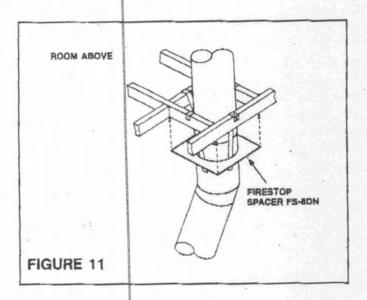
STEP 2: Fit the outer galvanized pipe with spacer in place over the outer fireplace starting collar located at the top-center of the fireplace unit.

Rotate the outer pipe to align the slots to the wire spacer locks. The wire spacer must protrude through the outer pipe slots.



Continue to assemble chimney sections as outlined above, making sure that both inner and outer sections are locked together. Stop assembly before reaching the ceiling and cover exposed pipe end.

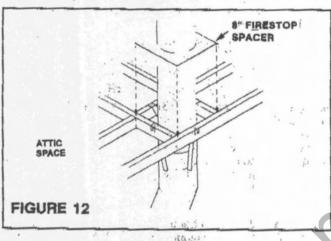
STEP 3: On the ceiling directly above the center of the doublewall pipe, lay out a 16½-inch square hole (use plumb bob) and cut out for chimney exit (Figure 4).



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, and they 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, either the 15° or 30° firestop should be used.

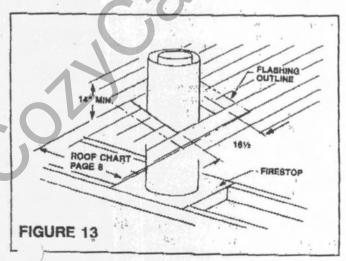
If the pipe passes through a framed opening between floors, install a firestop spacer to the bottom of the joists (Figure 11). When pipe passes through into attic space, install the firestop spacer on the top of the joists (Figure 12).



f. The roof hole cut-out varies with the type of chimney termination that will be installed, so refer to the chart on page 8, Figure 15.

STEP 5: After cutting the hole in the roof, uncover the pipe and add sections until the chimney extends a minimum of 14 inches above the highest point of the roof cutout (Figure 13).

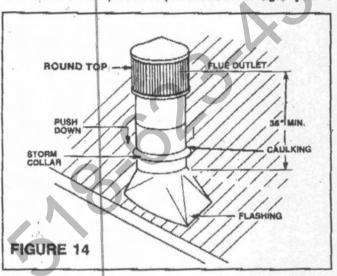
STEP 6: Position the flashing over the chimney and flat on the roof. Mark an outline of the flashing on the roof and remove the flashing. Remove all nails within the outlined area (Figure 14).



STEP 7: Place flashing into position on unshingled roof. Hold in position by nailing shingles in place over the flashing edges. DO NOT nail through the flashing.

STEP 8: Install storm collar on the chimney and push down securely to the top of the flashing. Apply waterproof caulking around the top of the storm collar.

NOTE: This is an important step to insure a watertight system.



NOTE: You may wish to caulk seam notches on all joints above the flashing and paint all exposed parts of the chimney with galvanized primer paint. A coat of paint to match the house may then be applied.

TERMINATIONS:

The fireplace and chimney system must be vented to the outof-doors and must be terminated with the listed contemporary or chase termination.

The completed chlinney, including the termination, must extend 36 inches above the highest point where it passes through the roof and not less than 2 feet above the highest point of the roof within 10 feet horizontally (Figure 16).

STEP10:Install termination/onlast section of pipe. There are 5 different terminations approved for this chimney system. The Standard Builders or Classic Round Top "Long" can be used on an exposed chimney or chase installation. They are adjustable to compensate for height variations on the chase top. The Standard Builders or Classic Round Top can be used on either exposed chimney or chase installation, but are not adjustable. The Trim Style Top is designed to be used on a chase installation, or decorative chimney enclosure only. For details, consult the installation instructions of the termination being used.

HOW TO DETERMINE YOUR FIREPLACE SYSTEM

DETERMINE TOTAL HI If raised hearth extens hearth extension height	ion is used au	btract	· .
2. HEIGHT OF FIREPLAC	E		35''
3. RISE OF ELBOWS INC. Use table of contents of		1	
4. HEIGHT OF BT-8DN/81 RT-8DN, RTL-8DN	L-BON.	3	
4a. HEIGHT OF TST-80 T	OP	1"	.,
5. TOTAL OF LINES 2 TH	ROUGH 48		
6. SUBTRACT LINE 5 FR	OM LINE 1		
7. LINE 6 IS DIMENSION PLETE INSTALLATION	C. THE LENGT (Refer to Chin	H OF PI	PENEEDED TO COM- ight Chart)
8, 12" PIECES OF PIPE 9. 18" PIECES OF PIPE 10. 36" PIECES OF PIPE 11. 48" PIECES OF PIPE SUBTOTAL	QUANTITY		
12. TOTAL OF LINES 5 AN	D 11 (SHOULD	EQUA	LINE 1)

MODEL	DESCRIPTION	LINEAL GAIN
792771	DWF-36ST) FIREPLACE	35"
793116	DOUBLE-WALL PIPE	10%"
793117	DOUBLE-WALL PIPE	16 3/4 "
793118	DOUBLE-WALL PIPE	3434"
793120	DOUBLE-WALL PIPE	463/4"
793121	CHIMNEY SUPPORT	1034"
793073	ROUND TOP	6"
793072	ROUND TOP ASSEMBLY	5"-14"
793059	TRIM STYLE TOP ASSEMBLY	6"-17"
793074	ROUND TOP	: 6"
793005	HOUND TOP LONG	11"-17"

MARCO's Double-Wall Chimney System, when used on this fireplace, is listed for installation to a maximum of 60 feet. This measurement includes the fireplace, chimney sections and the effective height of the termination assembly. The minimum height of the fireplace system must not be less than 15 feet, including the fireplace, chimney sections, and termination assembly. The minimum height when utilizing one set of elbows is 18 feet. The minimum height when utilizing two sets of elbows is 24 feet.

CHIMN	EV MA	MATEN	ANICE.
CUIMIA	E T IVIA		ANI

Regular inspection and cleaning of the chimney system is important. Refer to the Warranty and Operations Manual for instructions.

									_
8" DIAMET	ER CH	MNE	Y HE	GHT (CHART (DIMENS	ION H) FIG	URE	10
MAXIMUM	PI	PE LE	NOT	49	MAXIMUM	PIPE LENGTHS			
HEIGHT	12	18	36	48	HEIGHT	12	18	36	46
8'8"	1	-		2	32'7"	-	1		8
9'2''	1-	1	-	2	33'0''	2	<u> </u>	-	8
9'7"	2	-	-	2	33'6"	10	t	*	8
10'1"	1	1	-	2	34'1"	-	_	1	8
10'8"	-	-	1	2	34'6"	-	1	2	1
11'0"	2	1	-	2	35'1"	-	_		9
11'8"	-	_		3	35'6"	-	1	1	8
12'1"	-	1	1	2	36'0"	1	-	-	9
12'7"	1	-		3	35'6"	-	1	-	9
13'1"	-	1	7	3	36'10"	2	_	-	9
13'6"	2			3	374"	1	1		9
14'0"	7	-1	-	3	38'0"	-	_	1	9
14'7"		-	1	3	38'4"	-	1	2	8
15'0"		1	2	2	39,0,,	-	_	_	10
15'7"	_	-	_	4	39'4"		1	1	9
16'0"			1	3	39'10"	1	_		10
	-	1	-		40'4"	-	1	_	10
16'6"	1	-		4	40'9"	2	-		10
17'0"	1=	1	_	4	-	-		-	-
17'5"	2	-	-	4	41'3''	1	1	-	10
17'11"	1	1	-	4	41'10"	-	-	1	10
18'8"	-	-	1	4	42'3"	-	1	2	9
18'11"	-	1	2	3	42'10"	-	-	-	11
19'6"	-	_	-	5	43'3"	-	1	1	10
19'11"	1-	1	1	4	43'9"	1	_	-	11
20'3"	2	_	1	4	44'3"	-	1	-	11
20'9''	1	1	1	4	44'8"	2			11
21'5"	1-	-	2	4	45'2"	1	11	-	11
21'9"	1	1		5	45'9"	-	-	1	11
22'5"	-	-	1	6	46'2"	-	1	2	10
22'9"	-	1	2	4	46'9"	-	-	-	12
23'5"	-	-	-	6	472"	-	1	1	11
23'9"	1-	1	1	5	47'8"	1	-	-	12
24'2"	2	-	1	5	48'2"	-	1	-	12
24'8"	1	1	1	5	48'7"	2	-	-	12
25'3"	-	<u> </u>	2	5	49'1"	1	1	-	12
25'8"	1	1	-	8	49'8"	1	-	1	12
26'3"	+-		1	6	50'1"	1	1	2	11
26'8"	-	-	2	5	50'8"	-		-	13
27'3"	+-	1	-	7		1-	-	-	
	-	-	-	-	51'1"		1	1	12
27'8"	-	1	1	8	51'7"	1	-	-	13
28'2"	1	-	-	7	52'1"	-	1	-	13
28'8"	_	1	-	7	52'5"	2	-	-	13
29'1"	2	_	-	7	52'11"	1	1	-	13
29'7"	1	1	-	7	53'7"	-	-	1	13
30'2"	-	-	1	7	53'11"	-	1	2	12
30'7"		1	2	8	54'7"	-	-	-	14
31'2"	-	-	-	8	54'11"	-	1	1	13
31'7"	-	1	1	7	55'5"	1	-	-	14
32'1"	1	-	1_	8					-

The roof hole cut-out varies with the type of chimney termination that will be installed (see Figure 15).

TYPE FLUE	CEIL	
	Α .	B
8" VERTICAL	161/1	161/2
8" 30" OFFSET	2314*	161
8" 15" OFFSET	20*	. 1614

ROO	FOPEN	IING	. 1
TERMINATION	PITCH	¢	D
A. 1	FLAT	16%	181/2
ROUND	6/12	1812	181/2
STYLE	12/12	16%	221/2
TOPS	18/12	1614	28
i i	24/12	161/2	341/2
TRIM STYLE TOP	FLAT	161/2	161/2

*NOTE: CONSTRUCT CHIMNEY OPENING IN SAME DIRECTION AS OFFSET

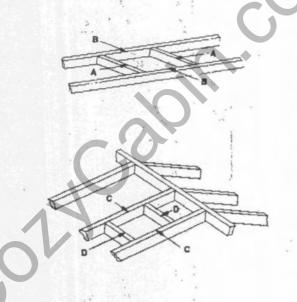
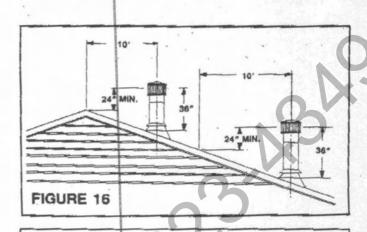


FIGURE 15

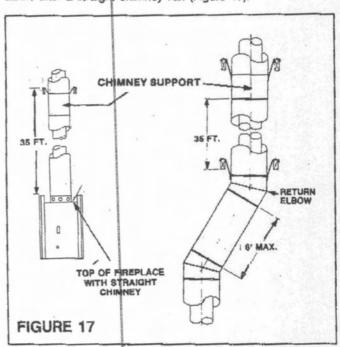


10' Rule — If chimney is within 10' of the roof peak, the top should extend a minimum of 2' above the peak. When further than 10' from the roof peak, the top should extend 2' higher than the closest point 10' away horizontally. (See Figure 16).

IMPORTANT: If an exposed portion of chimney is greater than 5 feet above the root line, use support wires to keep the 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.

CHIMNEY SUPPORTS:

The chimney support section is a double-wall, unitized 12" length of pipe. A chimney support is required at the 35 foot level above the fireplace after a straight chimney run or 35 feet above a return elbow after a straight chimney run (Figure 17).



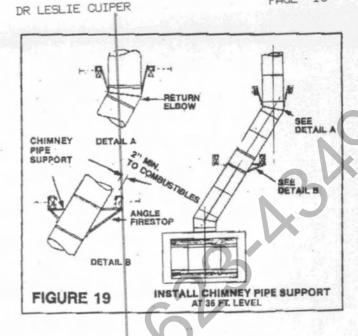
Chimney Support CP\$ 12-8DN is designed to relieve the extra weight load on the fireplace and elbows when high chimneys are installed.

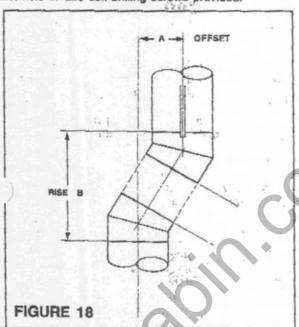
INSTRUCTIONS FOR OFFSET OF CHIMNEY USING ELBOWS

TO INSTALL ELBOWS

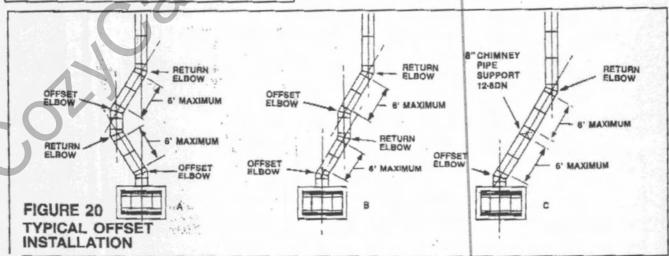
1. To achieve desired offset, you may install combinations of 12", 18", 36", 48" lengths of double wall pipe (see single offset chart and Figures 18, 19, 20).

- 2. Chimney weight above offset rests on return elbow. Straps must be securely nailed to rafters or joists. (see Figure 19).
- 3. Maximum length of pipe between supports (return elbow or chimney pipe support is 6' of angled run. Maximum of two 6' angled run sections per chimney system (Fig 20).
- 4. The maximum allowable offset is 30°. Elbows must be secured to the pipe utilizing a minimum of three screws per joint. Fasten screw through outer pipe slot. Drill 1/8" pilot hole or use self-drilling screws provided.





				-	FFSET	-		
	NUMBER AND LENGTH 1-30° Offset Elbow OF DOUBLE WALL PIPE 1-30° Return Elbow					1-15° Offset Elboy		
12"	18*	38"	CHIMNEY	4B*	Α.	В	A	В
-	-		-	-	51/4	1914	3	10
1	-	-	-	-	10%	28 1/4	51/2	301/4
	1	-	-	1-	131/2	331/4	7	381/4
2	-			-	16	3744	81/4	41
1	1	_	-	-	18	43	914	46 %
-	2	-	-	-	22	48 1/4	11%	52 1/2
-	-	.1	-	-	22 Vz	491/4	1134	53 1/4
2	1	, -		-	241/4	5214	12 1/2	57 V4
1	2	-		-	271/2	57 ½	14%	63
1		. 1	1	-	28	88 1/4	14 1/4	841/4
_	-	Air	-	1	28 1/4	5Ð %	141/4	85 1/1
_	3	-	-		30%	821/2	1515	68 14
_	1	1	-	-	31	63 14	18	70
2	72	1	-	-	331/4	68	17%	74 %
1	-	-	-	1	34	69	171/2	78%
1	1	1	-	-	37	74%	19	81 %
2	_	_	- ma	1	3914	781/4	20 1/4	88 1/4
_	-	2	-	-	40	78 1/1	20 1/4	87 14
-	-	2	1	_	481/4	88 7/4	23 1/4	97 %



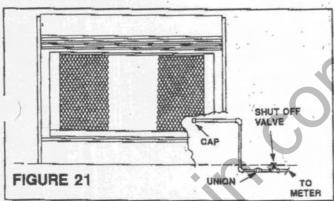
MINIMUM CHIMNEY HEIGHT: The recommended minimum height of the chimney system (15 feet) is based on the wind and pressure conditions usually found around the average omesite. Unusual conditions such as adjacent hills, tall trees, nigh wind areas, etc. can cause downdrafts to occur in any chimney system and would therefore require an extra length of pipe to ensure the proper draft conditions during the use of the fireplace. Consult your supplier or the local building inspector for any information they may have regarding local weather characteristics.

NOTE: In areas of high wind, it is possible for "down draft" to occur through the outer cell of the double-wall chimney. An "Anti-Downdraft Shield" has been designed to alleviate this condition.

FINISHING YOUR FIREPLACE

INSTALLING THE GAS LINE

IMPORTANT: Install the gas line before finishing the 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 required. (Figure 21).



The gas line may enter the fireplace from either side. Refer to Figure 3 for hole location. To remove knock-out plug from refractory side, first remove cover from outside of fireplace cassette with 5/16" socket wrench and remove conduit sleeve. Take insulation material out of gas line conduit and save for reuse. On the Inside wall of firebox, using a light punch, strike mark located 1½ inches from floor in the center of the side panel. Knock the plug through from inside the firebox to the outside. Reinsert the conduit sleeve.

Run gas line to the entrance hole of fireplace. Install a 7" minimum nipple to reach inside the fireplace. Repack insulation to conduit sleeve around nipple, finish installation by either capping the gas line or attaching gas log.

TEST FOR GAS LEAKS

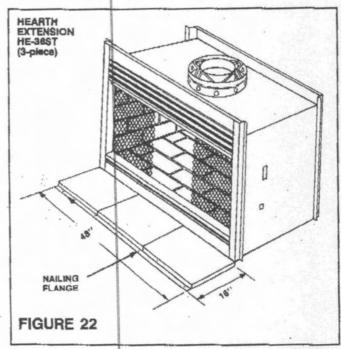
All gas piping and connections must be tested for leaks after the installation is completed. Be sure gas valve is turned on. Apply soap suds solution to all connections and joints. If bubbles appear, leaks can be detected and corrected. DO NOT use a match or open flame of any kind to test for leaks. 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 Z223.1-1984 and NFPA 54-1984.

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

When Installing the gas line, pack non-combustible insulation around gas line where it enters the fireplace at the outer wall.

HEARTH EXTENSION: If there is combustible floor construction in front of the fireplace, a hearth extension is required to protect it. The hearth extension as shown in Figure 22, must be a minimum of 16" deep by 48" wide, centered on the fireplace opening. The hearth extension must be made from a non-combustible inorganic material with a thermal conductivity, K, of .07 or less. The thermal conductivity, K, or thermal resistance, R, of materials can usually be obtained from the manufacturer. The factors are related by the formula $K = \frac{1}{R}$. The thickness required for various common materials and their factors are shown in Figure 23.



The state of the s			-
Material	K*.	R	Minimum Thickness
Millboard	.07	14.3	1.0"
Insulating Board (K-FAC19)**	.064	15.8	1,00"
Mineral Wool- Resin Binder	.024	41.6	.34"
Gypsum Board	.090 .,	. 11.1	1.28"
Common Brick *Units of K are BTL	.41 J / Sq. Ft. /	2.4 Hr: / °F / F	5.85" t.

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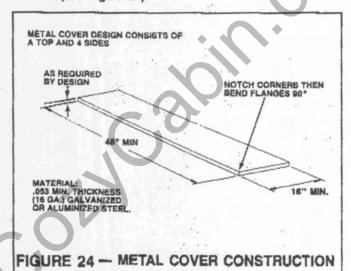
** Product of U.S. Gypsum

FIGURE 23 — COMMON MATERIALS AND THEIR FACTORS

Whatever the material used, sufficient thickness must be laid down to maintain an equivalent K factor.

The thermal insulating layer may be covered by any noncombustible material such as metal, tile, slate, brick, glass, concrete, marble, or stone. NOTE: Some non-combustible coverings such as metal, slate, sandstone and marble are relatively good conductors of heat and must be used in combination with the more thermally resistant materials.

In finishing up the hearth extension, be sure to fasten it securely the floor to prevent shifting, and seal the gap between the aplace frame and the hearth extension with a non-combustible material (see Figure 27).



EXAMPLE OF DETERMINING HEARTH EXTENSION EQUIVALENT

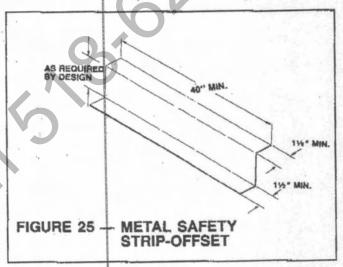
To determine the thickness required for any material: K new material" X 1" - Thickness Required

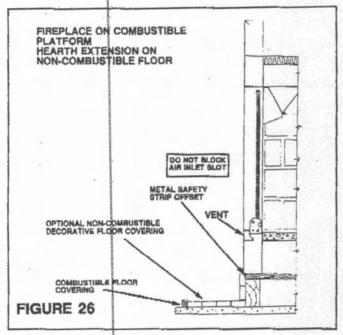
*Per foot.

Example for insulating board - K-FAC19: (K from Figure 23)

METAL SAFETY STRIP-OFFSET (SUPPLIED BY OTHERS)

Shall be constructed of a minimum thickness of .018 galvanized steel and should be shaped as shown in Figure 25.

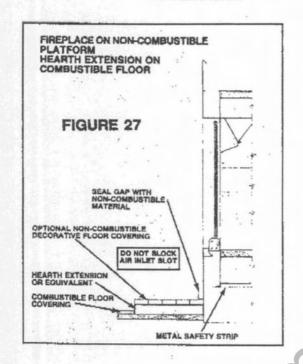


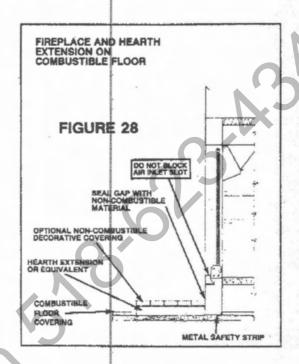


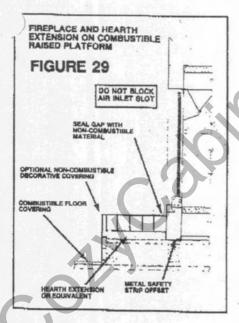
WARNING:

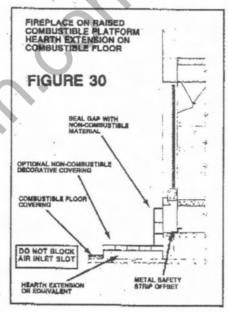
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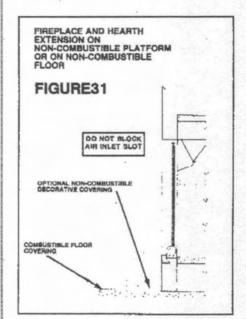
HEARTH EXTENSION IS TO BE INSTALLED ONLY AS ILLUSTRATED. FIGURES 26 THRU 31 SHOW OPTIONAL INSTALLATIONS.











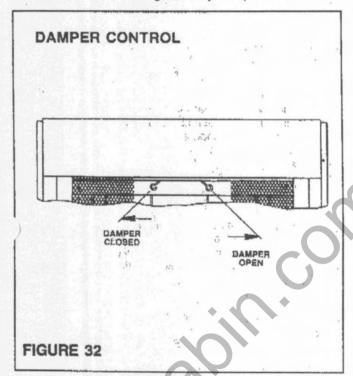
*NON-COMBUSTIBLE DECORATIVE COVERING:

Should be at least 3/8" thick and meet H.U.D. and or local building code requirements. The finished height of the hearth extension must not block the inlet grille at the bottom of the fireplace.

DAMPER CONTROL LEVER

he damper control lever located inside the top front of the nrebox has been engineered to provide for safe operation of your fireplace. Do not close the damper in an attempt to reduce a large fire. To do so may cause a potential smoke hazard, just as any fuel-burning appliance would do if not properly exhausted. If you forget to open the damper before you start your fire (you will know immediately by the smoke entering your home) simply move the damper lever from its closed position notch to the open position (Figure 32).

The fireplace flue damper must always remain open until the fire is totally out. Partially burned logs can appear to be out even when still burning giving off dangerous gases. If the damper is closed too soon, these gases may escape into the room.



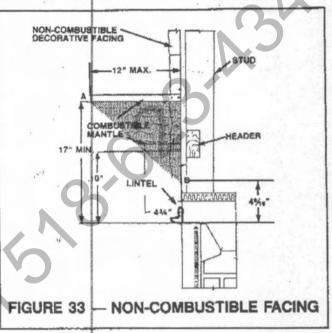
FIREPLACE FACING

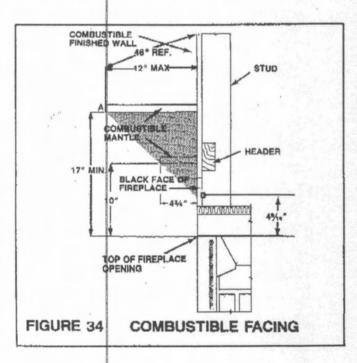
When selecting the finish material for your fireplace, It is important to remember the following: THE BLACK FACE OF THE FIREPLACE MUST NOT BE COVERED WITH ANY TYPE OF COMBUSTIBLE MATERIAL. THE SLOT AT THE BOTTOM AND THE GRILLE AT THE TOP MUST NOT BE OBSTRUCTED IN ANY WAY.

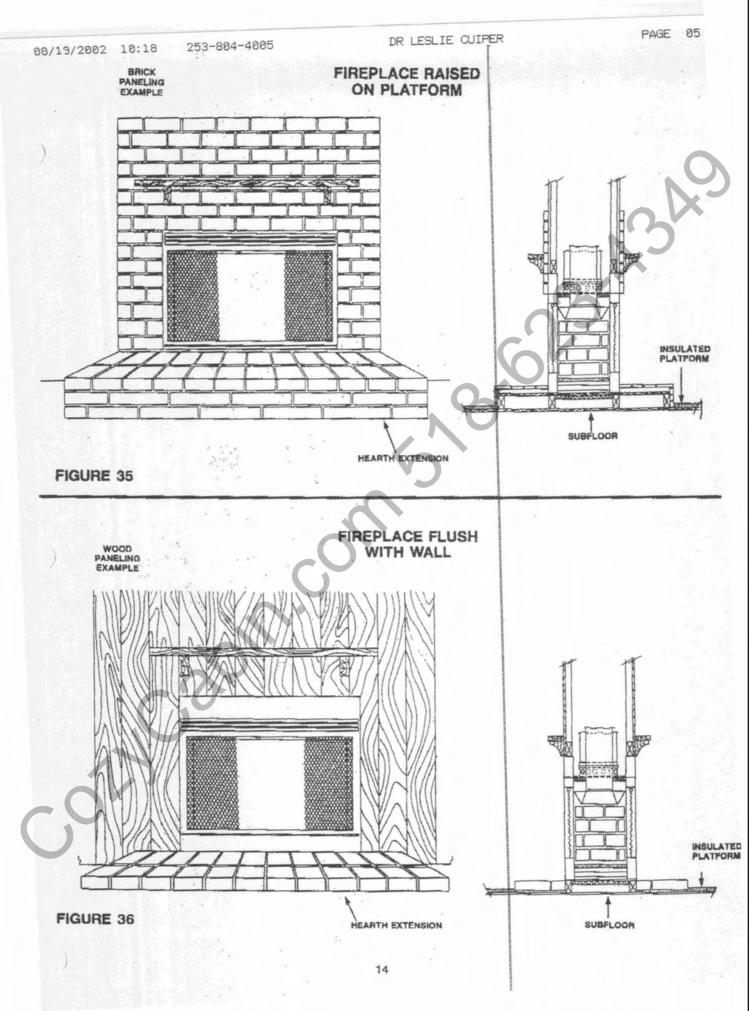
Non-combustible facing material such as tile, brick, glass, etc. may overlap the black face of the fire place. Be sure to use non-combustible heat resistant mortar or adhesive when attaching to fireplace face. The face of the fireplace may be painted to match the room decor provided you use a heat resistant paint. NOTE: Decorative facing must not extend into the fireplace opening at all, because it will interfere with the operation of the glass doors.

Combustible mantles may be safely installed provided they do not project beyond a line from point A to point B, as illustrated in Figures 33 and 34.

NOTE: Use an "L" shaped piece of metal (lintel) across the top of the fireplace opening when a non-combustible material is used on the face of the fireplace. It can be attached to the face of the fireplace with screws (See Figure 33).



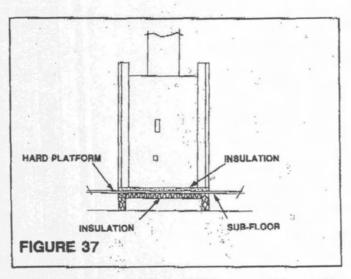


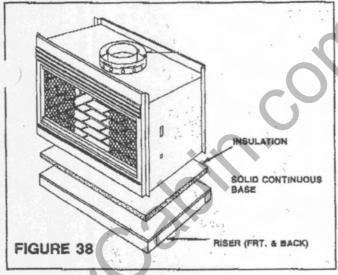


COLD CLIMATE INSTALLATION

When installing a fireplace in an area where outside imperatures reach 32°F or lower, it is important to protect the netal bottom from the cold air by setting the fireplace on a noncombustible, insulated, solid surface. (Figures 37 & 38). The insulation must be rated to withstand a temperature of 300°F.

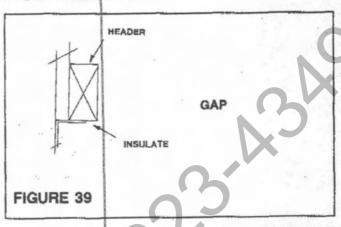
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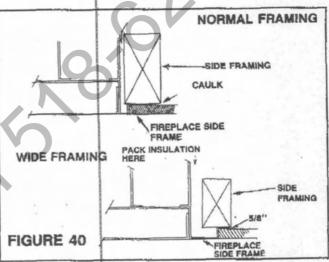




Inspect all joints for fit. If a joint is not fitting properly, caulk or use duct tape to prevent cold air leaks through the fireplace into the room.

Caulk all cracks around fireplace wherever cold air can enter the room (See Figure 40).





NOTE; Do not let insulation material come in contact with the fireplace in required air spaces.

As a further precaution, finish trim around the fireplace should be caulked between trim and fireplace to prevent entry of cold air or escape of warm air.

In areas of extreme cold, it is recommended that the outer walls of the chase be insulated. This will reduce the possibility of cold air convection currents on the fireplace. NEVER use blown-in type of insulation as this could plug the holes at the base of the chimney and interfere with the thermal syphoning action necessary to keep the chimney cool.

INSTRUCTIONS FOR OPERATION OF 36" SEE-THROUGH FIREPLACE

A See Through (two sided) fireplace, although quite beautiful, can be prone to minor smoking problems. Many environmental conditions in any individual installation can cause this smoking such as:

- · cross drafts in the room or between rooms
- · low chimney heights
- outside downdrafts
- · weather tight home construction hampering adequate make-up air for combustion or other ventilation appliances.

These problems can plague any "See Through" type fireplace whether a masonry custom built unit or factory made.

Your Marco See-Through 36 is a quality fireplace unit, however, as noted above, it also may exhibit minor smoke spillage under certain circumstances.

The following installation and operating hints will help reduce smoke spillage:

INSTALLATION:

1. Read the installation instructions thoroughly. Minimum chimney height should be 15 feet. Additional height will generally help.

2. In weathertight homes and homes where other ventilation appliances are used which exhaust air, make-up air is needed. A MARCO "Outside Air Kit" should be installed.

OPERATION:

- 1. Build your fire with dry wood keeping the wood to the center of the hearth
- 2. Make sure the damper and outside air controls (when installed) are open. If no outside air kit has been installed, provide additional ventilation. Start the fire and close both sets of doors. Keep the doors closed until the fire is burning well and the chimney is drawing well.
- 3. At this point, the doors can usually be opened if desired. Be sure to fully open both sets of doors.
- 4. As the fire dies and reaches the "smoldering stage" it is helpful to again close both sets of doors to reduce any spillage.

NOTE:

THE FIREPLACE MUST ALWAYS BE OPERATED WITH BOTH SETS OF DOORS FULLY OPEN OR FULLY CLOSED. FAILURE TO DO THIS MAY CAUSE SMOKE OR FLAME TO BE DRAWN OUT OF THE FIREPLACE.

DO'S AND DONT'S

- Read operation and warranty manual thoroughly before installing and using this fireplace.
- Open the damper to ensure proper operation.
- · Be sure outside air gate is open before starting your fire. Ventilating fans, central heating systems and exhaust fans can cause fireplaces to smoke by stealing the available combustion. air needed for burning the wood in your fireplace.
- . Keep base of fireplace clean of excess ash accumulation to prevent grate "burnout."
- · Keep the fire screen closed at all times when burning, except when adding fuel.
- · Keep area in front of fireplace clear of combustible materials such as drapes, paper products, wood storage, etc.
- Keep all flammable liquids away from fireplace.
- To prevent excessive creosote build-up, use only dry, seasoned wood.
- "Cure the refractory by building only small fires the first two or three times you use the fireplace. The refractory sides and hearth are made from a combination of materials including refractory cement and water. Large roaring fires built on "uncured" refractory could generate a steam reaction within the refractory and can cause cracks.
- Check the hearth for cracks and damage. Because the firebrick refractory is repeatedly heated and cooled, this can cause hairline cracks to form. This is normal and does not damage the fireplace. If, however, a crack should become large (1/16" wide or larger), refractory should be replaced.
- · Regular inspection and cleaning of the creosote (soot) buildup in your chimney is important for the safe operation of your fireplace. Consult your warranty manual for cleaning instructions.
- · When installing this fireplace in cold climate areas be sure to follow the cold climate installation instructions outlined in this bocklet.
- Have repairs done by a qualified service technician.
- . 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.

- Do not overload the grate; to do so could cause smoke to enter the room.
- . Do not allow ashes directly under the burning logs to build up to a point where they hinder the air flow.
- Do not block bottom vent.
- Do not burn large amounts of waste paper or cardboard in your fireplace.
- . Do not burn scrap construction lumber; it produces excessive
- . Do not burn would products with synthetic binders like artificial logs or plywood, as these produce abnormally high temperatures.
- · NEVER USE GASOLINE, KEROSENE, OR LIGHTER FLUID TO LIGHT OR "FRESHEN" A FIRE.
- Never close the damper until you are certain that there are no warm embers.

REFERENCE DOCUMENTS:

- 1. MARCO Woodburning Fireplace Warranty and Operation Manual, P/N 181536.
- 2. Door Kit Installation Instructions P/N 181587.
- 3. Outside Air Kit Installation Instructions, P/N 181620.
- 4. 8" Standard Builders Round Termination Installation Instructions, P/N 181621.
- 5. 8" Standard Builders Adjustable Round Termination Installation Instructions, P/N 181633.
- 6. 8" Classic Round Termination Installation instructions, P/N 181597.
- 7. 8" Classic Adjustable Round Termination Installation Instructions, P/N 181582.
- 8. 8" Trim Style Termination Instructions, P/N 181583.

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RULES APPLYING TO MOBILE HOME INSTALLATIONS

· Total height of fireplace and chimney sections, including round top, must be at least 10 feet, 6 inches but must not exceed 20 feet.

WARNING: THIS FIREPLACE AND CHIMNEY SYSTEM IS OT APPROVED FOR USE IN A BEDROOM OR ANY ROOM JISED FOR SLEEPING

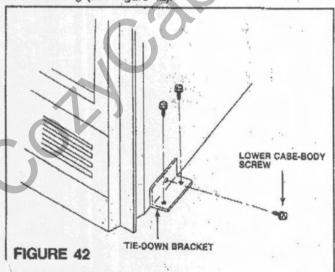
CAUTION: THE STRUCTURAL INTEGRITY OF THE MOBILE HOME FLOOR, WALL, CEILING AND ROOF MUST BE MAINTAINED.

. The firestop thimble must be used on a mobile home installation. The firestop thimble must extend from the ceiling through the roof. Chimney clearance to the thimble is 1". Thimble clearance to combustibles is 0".

Utilization of outside air is mandatory on mobile home installations. (See Figure 41) for proper installation.

EYEBROW FOR OPTIONAL WALL INSTALLATION -ATTACH TO FIREPLACE WITH SCREWS REMOVED AIR INLET DUCT CLAMP SECURELY AIR INLET ASS'Y VENTED CRAWL FIGURE 41 AIR INTAKE

· Secure the fireplace to the floor of the mobile home to prevent shifting (see Figure 42)

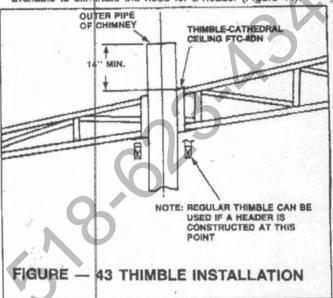


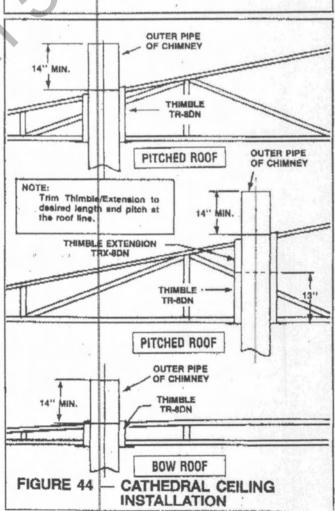
Nail the thimble (TR-8D) into place through the ceiling making sure 17 the thimble penetrates the mot opening NOTE: For construction

exceeding 13" from outside of roof to inside of ceiling, a thimble extension (TRX-80N) is available from your MARCO dealer. The thimble provides for zero clearance to combustibles and must be used at the celling/roof on mobile homes with double wall chimney. (Figure 43).

NOTE:

For cathedral or open beam ceilings, a thimble (FTC-8DN) is available to eliminate the need for a header (Figure 44).

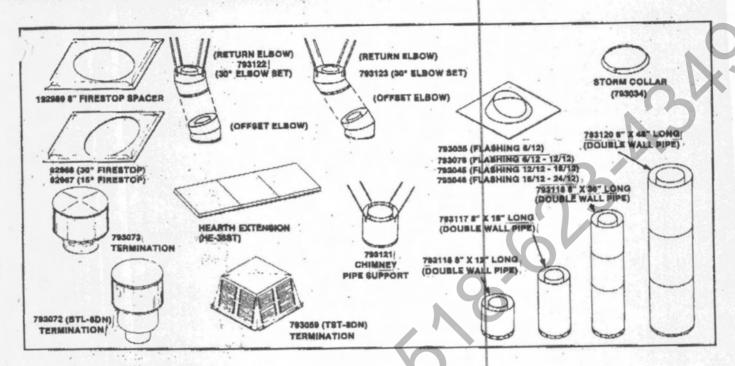




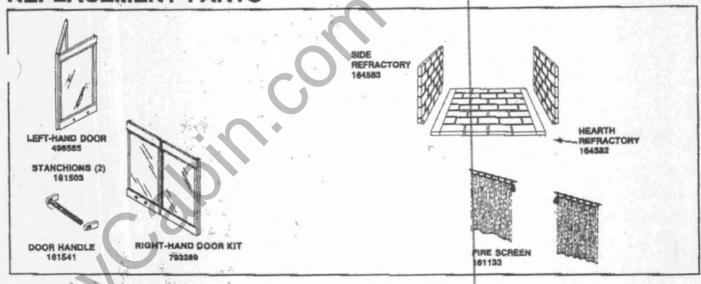
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COMPONENT PARTS

U.L. LISTED FIREPLACE PARTS LISTED BELOW SHALL BE USED WITH THE DWF-36ST FIREPLACE.



REPLACEMENT PARTS



HOW TO ORDER REPAIR PARTS

- 1. Order repair parts from the Dealer through whom you purchased the fireplace, if possible.
- 2. Be sure to give the Part Number, the Name of the Part, and the Fireplace Model Number. The Model Number is on the inside right hand side of the fireplace.
- 3. When remittance is sent with the order, include enough for transportation.
- 4. There is a minimum invoice charge of \$10.00 plus postage for each order.
- 5. All parts are subject to change without notice.



MARCO MFG., INC. 2520 Industry Way, Lynwood, CA 90262 (213) 564-3201