



CLASS A INSULATED CHIMNEY PIPE

6" & 8" Diameter Installation Instructions

A MAJOR CAUSE OF CHIMNEY RELATED FIRES IS FAILURE TO MAINTAIN REQUIRED CLEARANCES (AIR SPACES) TO COMBUSTIBLE MATERIALS. IT IS OF THE UTMOST IMPORTANCE THAT THIS CHIMNEY BE INSTALLED ONLY IN ACCORDANCE WITH THESE INSTRUCTIONS.

Note: Read through all these instructions before beginning your installation. Failure to install the chimney as described in these instructions will void the manufacturer's warranty and may have an effect on your homeowner insurance and UL listing status. Keep these instructions for future use.

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CLEARANCES

Always allow at least a 2-inch clearance between Class A chimney pipe and any combustible materials. Never fill any required clearance space with insulation or any other materials. Combustible materials include lumber, plywood, sheetrock, plaster and lath, furniture, curtains, electrical wiring and building insulation. Keep single-wall stovepipe at least 18 inches away from combustible materials, unless a clearance reduction system acceptable to the authority having jurisdiction is used, or the appliance is listed and its instructions specify a different clearance.

PERMITS

Contact your local Building Official or Fire Official about restrictions and installation inspection in your area.

CLASS A CHIMNEY APPLICATION

This UL 103 Type HT double-wall insulated chimney can be used with wood stoves, fireplaces, fireboxes, furnaces, boilers, water heaters, stoves, ranges, or other residential-type appliances fueled by oil, gas, coal, or wood that require a chimney system. Do not use this chimney with forced-draft or positive-pressure appliances.

CHIMNEY DIAMETER

Follow the appliance manufacturer's instructions to determine chimney diameter and clearances between combustible materials and your heating appliance. Never choose a chimney with an inside diameter smaller than your appliance's outlet. To calculate the chimney's outside diameter, add 2 inches to the inside diameter.

CHIMNEY HEIGHT

The National Fire Protection Association Standard #211 states: "Chimneys shall extend at least three feet above the highest point where it passes through the roof of a building, and at least two feet higher than any portion of a building within ten feet." (Fig 1). If the chimney extends more than 5 feet above the roof, a Roof Brace must be used (see page 11). Due to the overlap of joints, subtract 1- $\frac{1}{8}$ inch from each Chimney Section's height to calculate installed height.

The chimney shall be at least **10 feet** away from adjacent walls or buildings.

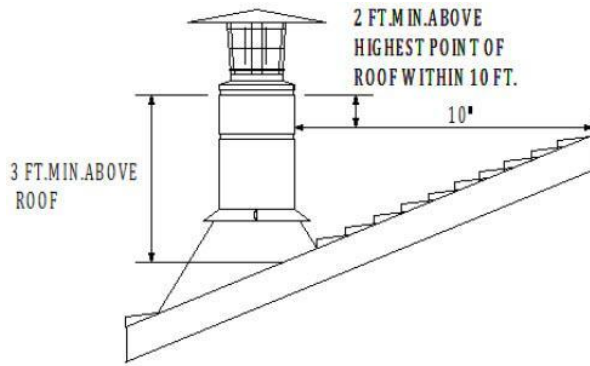


Fig.1

The Tee Support can hold a maximum of 52 feet of chimney. The required parts and general configuration are as shown in Figures 21 and 22.

CHIMNEY PLACEMENT

When deciding the location of your chimney, try to avoid modifications to roof beams, trusses, wall studs, and other structural components of the building.

CHIMNEY ENCLOSURE REQUIREMENTS

Passing Through Rooms: Interior chimneys shall be enclosed where they extend through closets, storage areas, occupied spaces, or any place where the surface of the chimney could be contacted by persons or combustible materials. The space between the outer wall of the chimney and the enclosure shall be at least 2 inches (Fig 2).

Multi-Story Installations: Consult local building codes for requirements in your area. In the U.S., the National Fire Protection Association Standard #211 states: "Factory-built chimneys that pass through floors of buildings requiring the protection of vertical openings shall be enclosed with approved walls having a fire resistance rating of not less than one hour when such chimneys are located in a building less than 4 stories in height, and not less than 2 hours when such chimneys are located in a building more than 4 stories in height." In Canada, except in single-family and two family dwellings, chimneys which extend through another story must have an enclosure with a fire resistance rating equal to or greater than that of the floor or roof assembly through which they pass.

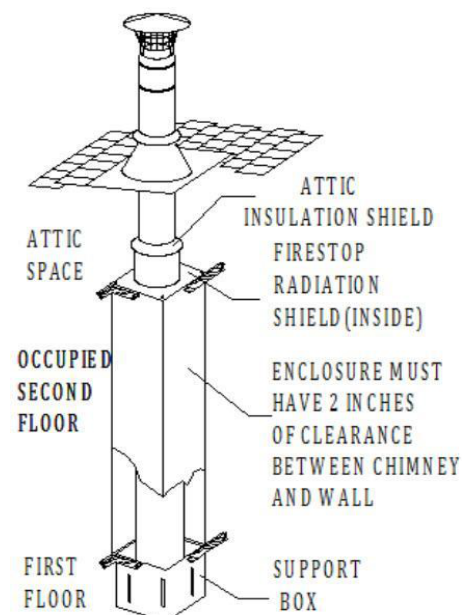


Fig 2

Cold Climates: In cold climates, chimneys mounted on an outside wall should be enclosed in a chase. Exterior chases reduce condensation and creosote formation, and enhance draft. Include an access door by the Tee Cap for chimney cleaning (refer to Fig 21, page 16).

STOVE RECOMMENDATIONS

Follow the instructions supplied with the stove. The requirements stated below pertain to all stoves or other appliances installed with this Class A chimney system.

Choice: Choose an appliance that is listed by a recognized testing laboratory, is appropriate for your needs, and is not larger than required.

Installation: Once the chimney system is in place, install the stove pipe to connect the appliance to the chimney as described in the appliance instructions. Be sure to maintain all required clearances.

Flues: Connect only one solid fuel appliance per chimney.

Operation: Follow the appliance instructions for maximum efficiency and safety. Overfiring can damage the appliance, stovepipe and chimney.

Fuels: Do not burn driftwood, plastic, or chemically treated wood such as railroad ties. They are corrosive to your appliance, stovepipe and chimney. Follow the appliance instructions and safety manual regarding fuels. Not all appliances are equipped to burn coal. Coal with a low sulfur content will reduce the possibility of corrosion.

Mobile Homes: Read the appliance instructions and safety manual carefully. Not all appliances are listed for use in mobile homes.

STEP-BY-STEP INSTALLATION INSTRUCTIONS

There are five general types of Class A chimney installations:

1. Ceiling-supported
2. Roof-supported
3. Tee-supported (through-the-wall)
4. Masonry Fireplace
5. Zero-Clearance Fireplace

Review the step-by-step directions before beginning your installation.

CEILING SUPPORTED INSTALLATIONS

1. **Place Appliance:** Position the appliance according to the manufacturer's instructions. The flue outlet collar should be placed between the rafters or joists above, if possible.

2. **Frame Support Opening:** Drop a plumb bob to the center of the appliance's flue outlet and mark the center point on the ceiling. Refer to **Table 1** for specific framing and clearance dimensions. Mark appropriate cutting lines on the ceiling around the center point. Cut a square hole in the ceiling for the Ceiling Support Box to pass through. Frame a level, square opening centered over the hole which you have cut between the joists (Fig 3 & 4).

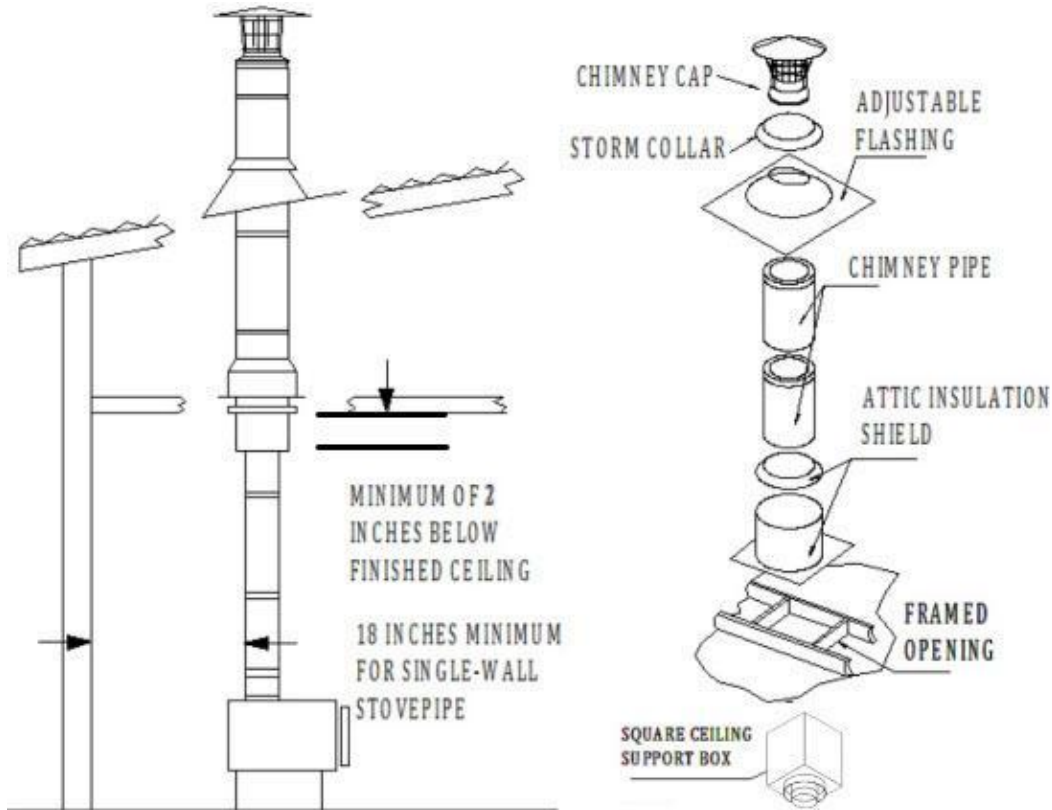


Fig.3

Table 1

FRAME DIMENSIONS FOR SQUARE CEILING SUPPORT BOX, WALL THIMBLE, AND RADIATION SHIELD				
CHIMNEY SIZE	5"	6"	7"	8"
FRAMED OPENING INSIDE DIMENSIONS	11 1/2 X 11 1/2	12 1/2 X 12 1/2	13 1/2 X 13 1/2	14 1/2 X 14 1/2

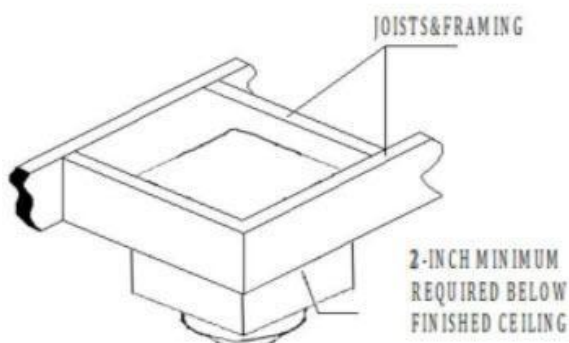


Fig.4

3. **Flat Ceiling Support Box Installation:** For a flat ceiling installation use the Square Ceiling Support Box and Trim. The bottom of the Square Ceiling Support Box must extend at least 2 inches below the finished ceiling (measured to the bottom of the box not including the round adapter section) (Fig 5).

Level the Support Box and secure it to the framing using at least three 8-penny nails per side (min. of 12 total). Alternatively, you may use 1-½" #8 wood screws (min. of 12 total), instead of nails. Next, secure the Trim Collar to the framing members using the provided hardware.

Vaulted Ceiling Support Box Installation: For a vaulted ceiling installation use the 24" or 36" Square Ceiling Support Box and Trim. The bottom of the Support Box must be a minimum of 2 inches below the finished ceiling at the lowest side of the penetration (measured to the bottom of the box not including the round adapter section) (Fig 5).

Level the Support Box and secure it to the framing using at least three 8-penny nails per side (min. of 12 total). Alternatively, you may use 1-½" #8 wood screws (min. of 12 total), instead of nails. Next, secure the Trim Collar to the framing members using the provided hardware. **Note:** You will need to construct a separate frame for the Attic Insulation Shield if the chimney is not fully enclosed in a chase.

Cathedral Ceiling Support Box

Installation: For a cathedral ceiling installation use the 24" or 36" Square Ceiling Support Box and Trim. The bottom of the Support Box must be a minimum of 2 inches below the finished ceiling at the lowest side of the penetration (measured to the bottom of the box not including the round adapter section) (Fig 5).

Level the Support Box and secure it to the framing using at least three 8-penny nails per side (min. of 12 total). Alternatively, you may use 1-½" #8 wood screws (min. of 12 total), instead of nails. Next, secure the Trim Collar to the framing members using the provided hardware.

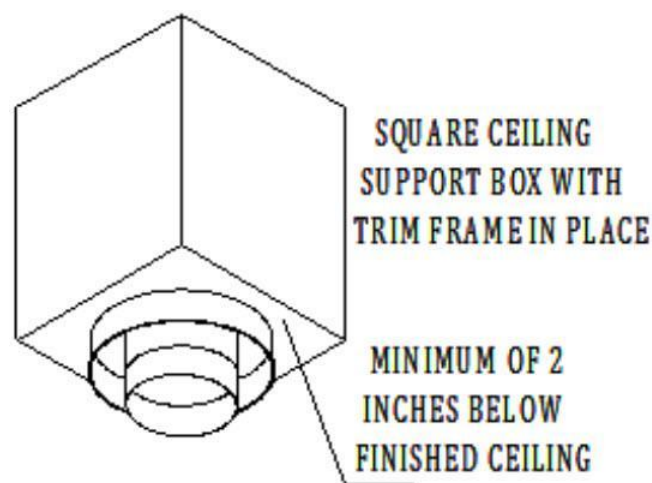


Fig. 5

4. **Multi-Story Installation - Frame Openings:** Frame openings in each ceiling or floor above the Support Box (Fig 6). These openings are to hold the Firestop Radiation Shields and Attic Insulation Shields. Locate each opening by dropping a plumb bob to the four corners of the opening below. Maintain the minimum clearances and dimensions as specified in **Table 1**. If Elbows must be used to avoid an obstruction, refer to the Offset Elbow Installation section.

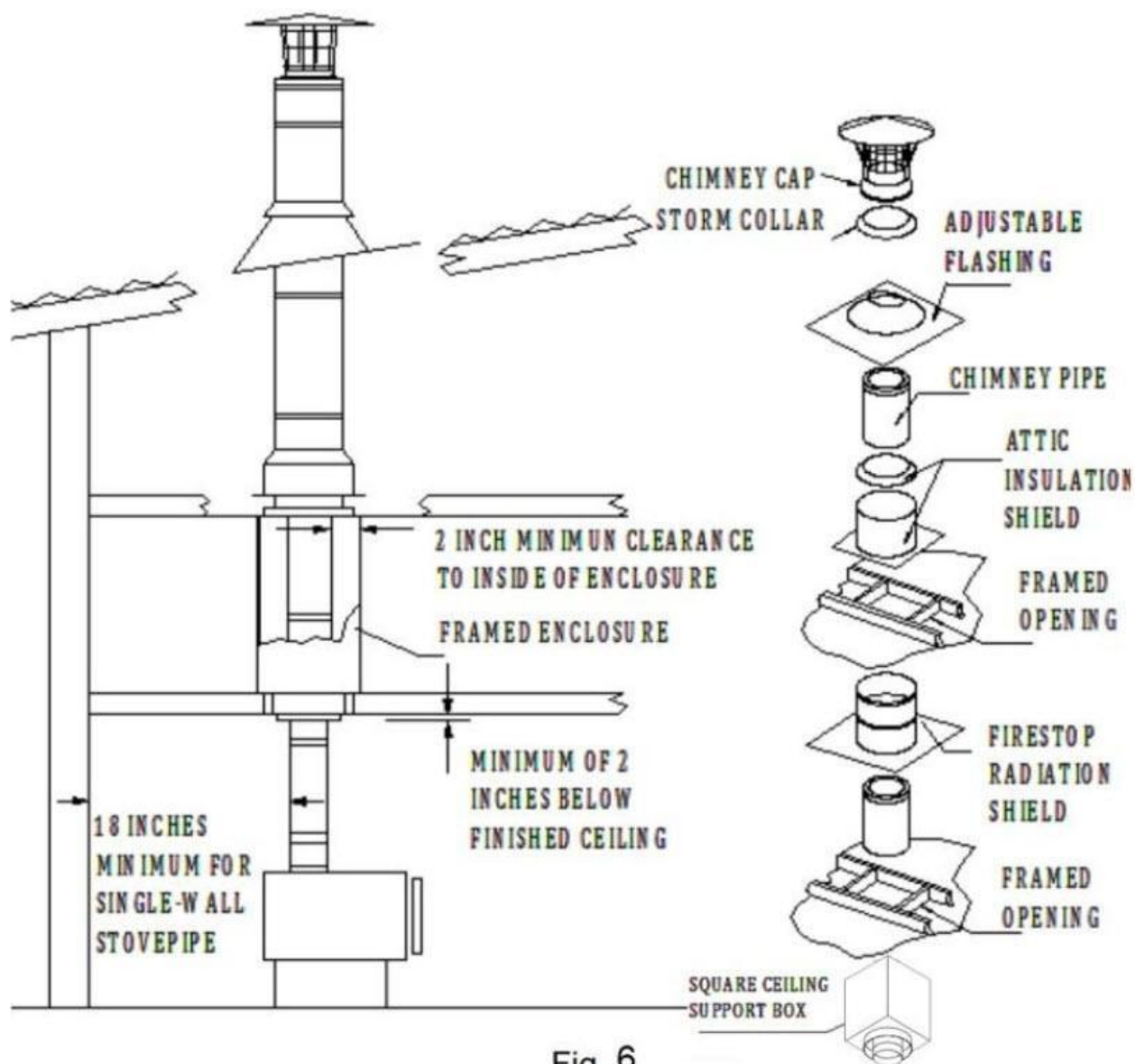


Fig. 6

5. **Cut Roof Opening:** Cut an opening in the roof directly above the opening below and at least 4 inches larger than the chimney's outside diameter to provide at least a 2 inch clearance all around the chimney. The chimney must be centered within this opening and maintain the 2 inch clearance to combustibles.
6. **Install Radiation Shield:** A Radiation Shield is required in multistory installations at each floor penetration above that where the Support Box is located. Example: in a multistory home where the appliance is on the ground floor (Support Box is in the 1st floor ceiling), you would need a Radiation Shield at the 2nd floor ceiling, and at the 3rd floor ceiling, etc., including where the chimney penetrates into the attic. Figure 6 shows a typical 2-story installation with an attic. Note: a Radiation Shield is **NOT** installed where the chimney penetrates through the roof. The Radiation Shield is installed on the underside of the ceiling/floor framing, with the cylindrical "tube" portion of the shield pointing upward (Fig 7). Use a minimum of either (1) 8 penny nail or (1) #8, 1-½" wood screws per corner. Refer to **Table 1** for framing requirements.
7. **Assemble Chimney Sections:** Lower the female end of the first Chimney Section in the Support Box (Fig 8). It will twist-lock clockwise onto the male end of the Support Box. Turn Pipe Sections firmly clockwise to lock them together. Sheet metal screws are not required, but they may be used to reinforce the connection, if desired. Use only ½" (or shorter) sheet metal screws. Do not penetrate the inner liner of the chimney.
8. **Install Attic Insulation Shield:** Install the Attic Insulation Shield where the chimney passes into an attic. Its purpose is to prevent debris and insulation from getting too close to the chimney (Fig 9). An installed Attic Insulation Shield is 15 inches high. In

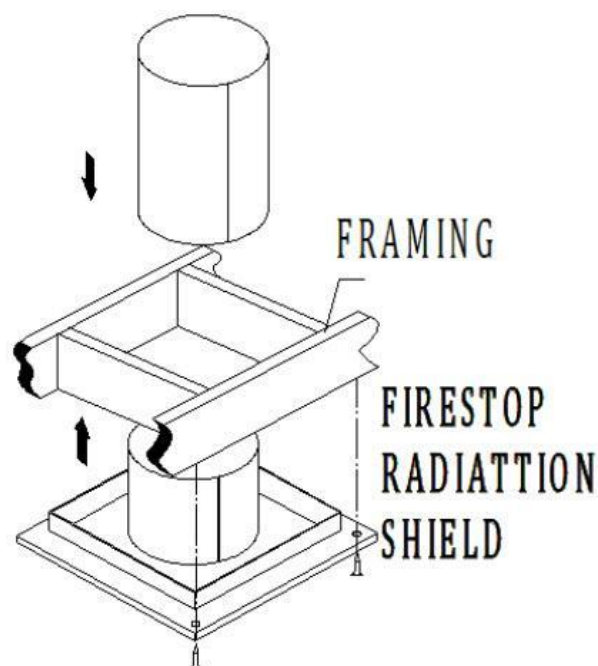


Fig. 7

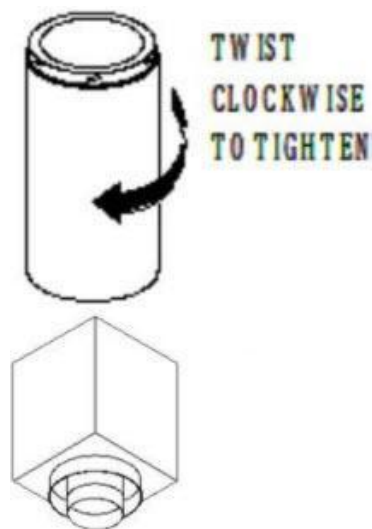
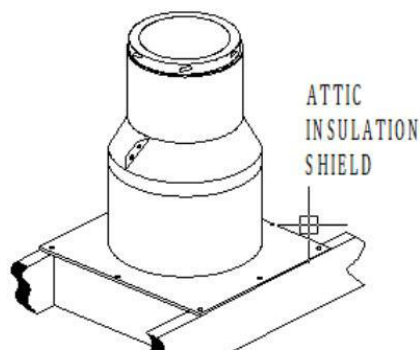


Fig. 8



attic areas where this shield cannot fit, a Square Ceiling Support Box, (which are available in heights of 11", 24", and 36"), can be used instead of an Attic Insulation Shield, provided it reaches through the roof; refer to the Roof Supported Installation section on page 14. If the chimney is fully enclosed through the attic, an Attic Insulation Shield is not required.

Where the chimney passes into the attic, install the Attic Insulation Shield as follows:

- a. If the Firestop Radiation Shield extends above the attic floor, no modifications are necessary. The Firestop Radiation Shield will fit inside the Attic Insulation Shield. If the Square Ceiling Support Box extends into the attic above the framing you will need to trim the box down.
 - b. Assemble Chimney Sections until at least 18 inches of chimney extends above the Firestop Radiation Shield or Square Ceiling Support Box.
 - c. When applicable extend the Firestop Radiation Shield tube extension (keep at least 1" overlap), and secure in place using sheet metal screws.
 - d. Slip the Attic Insulation Shield over the chimney pipe until the base sits squarely on the framed opening (Fig 6 & 9).
 - e. Secure the Attic Insulation Shield to the top of the framed opening using at least (3) 8-penny nails or (3) #8, 1-1/2" wood screws per side (Fig 9).
 - f. Wrap the Collar of the Attic Insulation Shield around the chimney and fasten it loosely with the supplied hardware. Slide the Collar down to meet the Attic Insulation Shield. Tighten the hardware to secure the Collar.
9. **Attach Roof Flashing:** In new construction, assemble the Chimney Sections to a point above the roof, then slip the Roof Flashing over the chimney. On an existing roof, center and install the Roof Flashing before extending the chimney above the roof. Allow space to permit sliding the next Chimney Section up through the Roof Flashing. Always ensure the chimney remains vertical (use a level), and that at least a 2 inch clearance to combustible materials is maintained all around. Install the upper edge of the Roof Flashing under the roofing material (shingles). Nail to the roof along the upper edge and down each side with 1 inch roof nails. Do not nail the lower edge of the Flashing. Be sure to follow local building practices as needed. Seal all nail heads with a non-hardening waterproof sealant. On flat or tarred and gravel roofs, nail and seal the Flat Roof Flashing to the roof on all sides of the roofing compound. Do not put screws through the Roof Flashing into the Chimney Pipe. When installing a ventilated roof flashing leave the storm collar 1/2 inch above the opening of the flashing. Do not caulk or seal the openings, "vents", on the flashing. See Fig 11.

10. **Finish Top:** Apply a high-temperature (500°F), non-hardening waterproof sealant around the chimney at the point where the Storm Collar will meet the chimney just above the Roof Flashing, and also along the vertical seam of the chimney pipe, which is exposed to the weather (Fig 10 & 11). Slide the Storm Collar down over the chimney to the top of the Roof Flashing. Tighten and seal the Storm Collar against the sealant. After installing sufficient Chimney Sections to meet the height requirement (Fig 1), attach the Chimney Cap on top of the chimney by holding the collar of the cap and twist locking it clockwise onto the chimney. Do not hold the upper portion of the cap and twist, as this may damage the cap. The Chimney Cap can be removed for chimney cleaning as described in the Chimney Maintenance section of the instructions. Use an Extended Roof Brace if the chimney extends more than 5 feet above the roof (Fig 13 & 14 on pg 14).

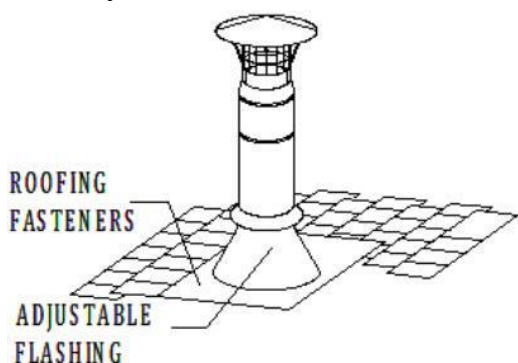


Fig 10

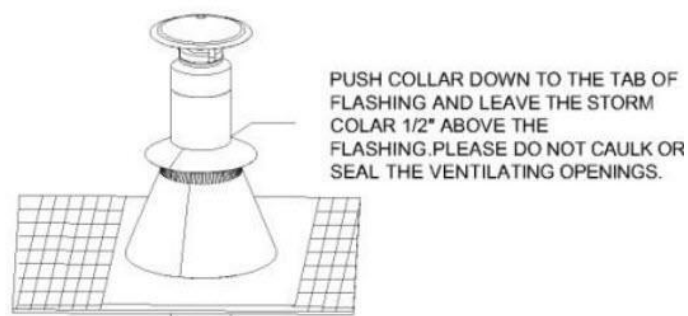


Fig 11

11. **Enclosures:** Enclose chimneys where they pass through occupied spaces, including closets. Always maintain at least a 2 inch clearance between the chimney and any combustible materials. Interior enclosures may be constructed with standard framing and sheathed with sheetrock or plywood. Use Wall Brackets as needed to maintain a minimum of 2 inches of air space (clearance) between the chimney and combustible materials.

OFFSET ELBOW INSTALLATION

Elbows are manufactured in 15° and 30° angles measured from the vertical. A 30° Elbow is the largest that can be used in an offset. A 30° Elbow may **NOT** be combined with a 15° Elbow to make a 45° offset. Avoid Elbows if possible, since a totally vertical chimney is more efficient. When Elbows are necessary to avoid obstructions such as rafters, ridgepoles, or joists, use **no more than two 30° offsets** in any one chimney system.

1. **Attach Elbows:** Attach Elbow to Chimney Section or other Elbow. Please note that the female end of the elbows are not lanced, in order to ensure proper alignment of the chimney system can be maintained. Locking bands are included and must be used at all chimney joints. Attach one Elbow to the Chimney Section below, and align it for the offset. Refer to **Table 2** to determine the required offset length and attach an appropriate length (or lengths) of Chimney Section(s) above the Elbow. Note: maximum of two chimney sections can be connected between Elbows. The maximum length of chimney pipe between elbows is not to exceed 72". Attach the second Elbow above the Chimney Section to complete the offset (Fig 12).
2. **Secure Offset:** Place the Elbow Strap's band around the angled portion of the top Elbow, then tighten the nut and bolt until the clamp is firm. Wrap the Elbow Strap end over an adjacent joist or rafter and secure it with at least (2) 8-penny nails or (2) #8, 1-½" screws. Do not add more Chimney Sections until the Elbows are supported. Be sure that the chimney remains vertical. If there is more than one Chimney Section between the Elbows, install a second Elbow Strap around the joint of the two Chimney Sections (Fig 12).

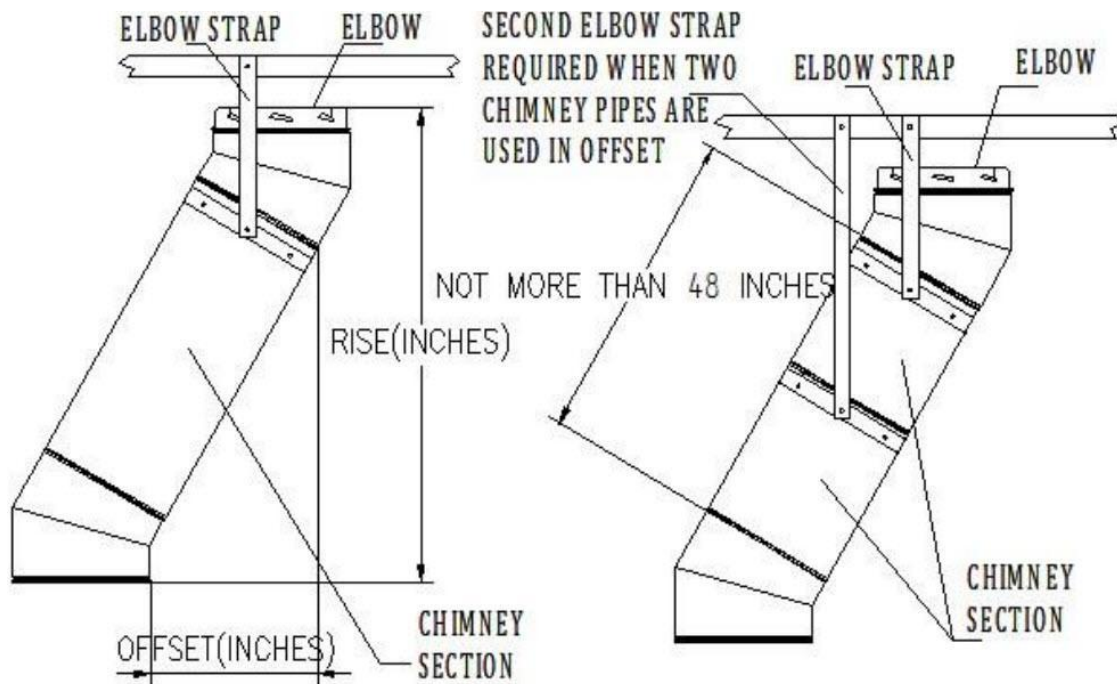


Fig 12

	CHIMNEY LENGTH BETWEEN ELBOWS	6", 8" Inner Diameter	
		OFFSET "C"	RISE "D"
ELBOW DEGREE = 15	0"	2"	16 1/2"
	6"	3 1/4"	21 1/4"
	9"	4"	24 1/8"
	12"	4 3/4"	27"
	18"	6 1/4"	32 3/4"
	24"	8"	38 1/2"
	36"	11"	50 1/4"
	48"	14 1/4"	61 3/4"
ELBOW DEGREE = 30	0"	4"	15 3/4"
	6"	6 1/4"	20"
	9"	7 3/4"	22 5/8"
	12"	9 1/4"	25 1/4"
	18"	12 1/4"	30 1/4"
	24"	15 1/4"	35 1/2"
	36"	21 1/4"	46"
	48"	27 1/4"	56 1/4"

Table 2 Elbow Offset Chart

EXTENDED ROOF BRACE INSTALLATION

If the chimney extends more than 5 feet above the roofline or its highest rigid support, one Extended Roof Brace must be installed. Only one Extended Roof Brace may be used. The chimney must not extend more than 10 feet above the roofline or highest rigid support, and no more than 5 feet may extend above the brace. Installations exceeding these limits require a site-specific engineered support solution. The Extended Roof Brace provides lateral stability only and does not support the vertical weight of the chimney.

1. **Mount Pipe Band:** Slip the Pipe Band around the chimney and secure by tightening the nut and bolt.
2. **Attach the Legs:** The Adjustable Legs of the assembly will adjust from 65" to 130". Secure one end of the Legs to the Pipe Band using the nuts and bolts included (1 per leg). Position the Adjustable legs so they form approximately a 60° angle with the chimney, and with each other (Fig 13 & 14). Be sure that there is at least 3" of overlap between the top and bottom halves of the Adjustable Leg. In order to secure Legs in proper position, there is a hole

provided in the outer leg where the outer and inner halves overlap. Use a 1/4" drill bit to drill through the inner leg at that location. Use the nut & bolt provided to pin the Adjustable Legs in position.

3. Install Roof Bracket: Mount the two Brackets where each of the adjustable legs meets the roof, using (6) 1" roofing nails per bracket. Seal the nail heads carefully with a non-hardening, waterproof sealant. Attach the bottom end of the Adjustable Legs to the Roof Brackets using the nuts & bolts provided.

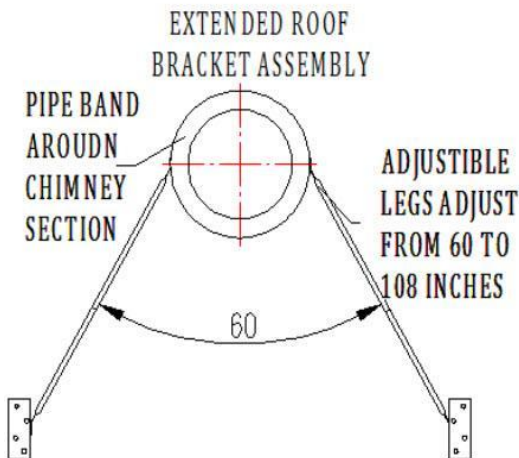


Fig 13

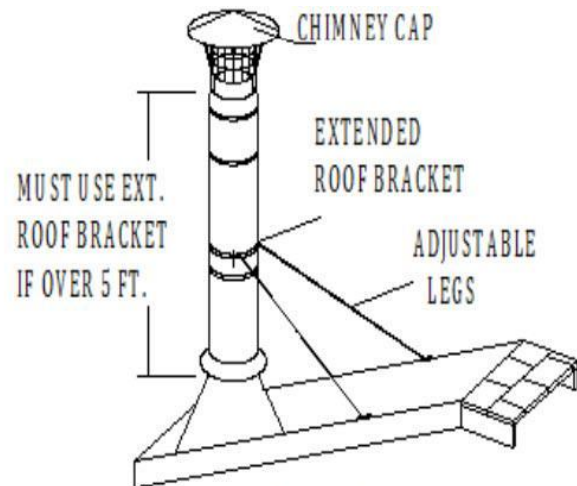


Fig 14

ROOF SUPPORTED INSTALLATIONS

There are two types of Roof Supported Installations: Using a Square Ceiling Support Box and using a Roof Support Bracket.

For a Square Ceiling Support Box installation, make sure that the square box portion of the Support Box can extend at least 2" below the low side of the finished ceiling (Fig 15). The Support Box must remain level, and the top edge of the box must cover the edge of the roof's decking material. Mobile home chimney installations are roof supported. Do **NOT** seal openings in flashing.

1. Place Appliance: Place the appliance in its proper location, referring to the manufacturer's instructions as to allowable distances from combustibles, etc.
2. Cut Openings: Cut a roof opening in your desired location, just as in a Ceiling Supported Installation (Steps 1 through 5, page 5-9). If a separate ceiling and roof exists, as shown in Figure 16 (Low Attic), first cut and frame a ceiling opening as described in Ceiling Supported Installations (Step 2, page 6). Refer

to Table 1 on page 6 for clearance and framing specifications. If installing through a cathedral ceiling refer to Fig 15, the hole is cut directly in the roof.

3. **Install Square Ceiling Support Box:** Slip the Square Ceiling Support Box into the framed opening so the square portion projects at least 2 inches below the finished ceiling and rafters, and extends above the ceiling to framing or decking materials that it can be nailed to. Level the Support Box, and slit the corners to the roofline where they extend beyond it. Secure using (3) 8-penny nails, or (3) 1-½" #8 screws, per side (Fig 20).
4. **Complete Installation:** Refer to Steps 7, 9 & 10 (pages 9-11) in the Ceiling Supported Installation section to complete the Roof Supported installation.

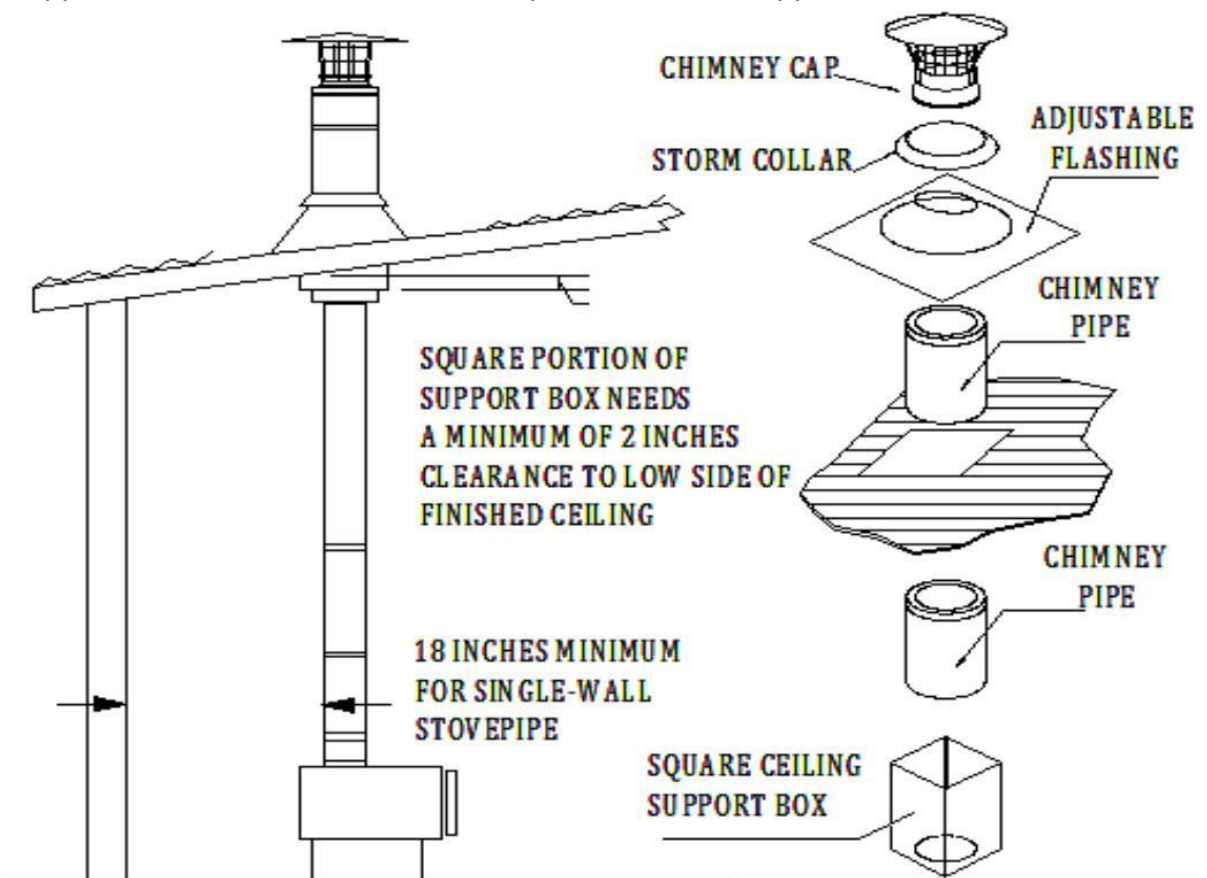


Fig15

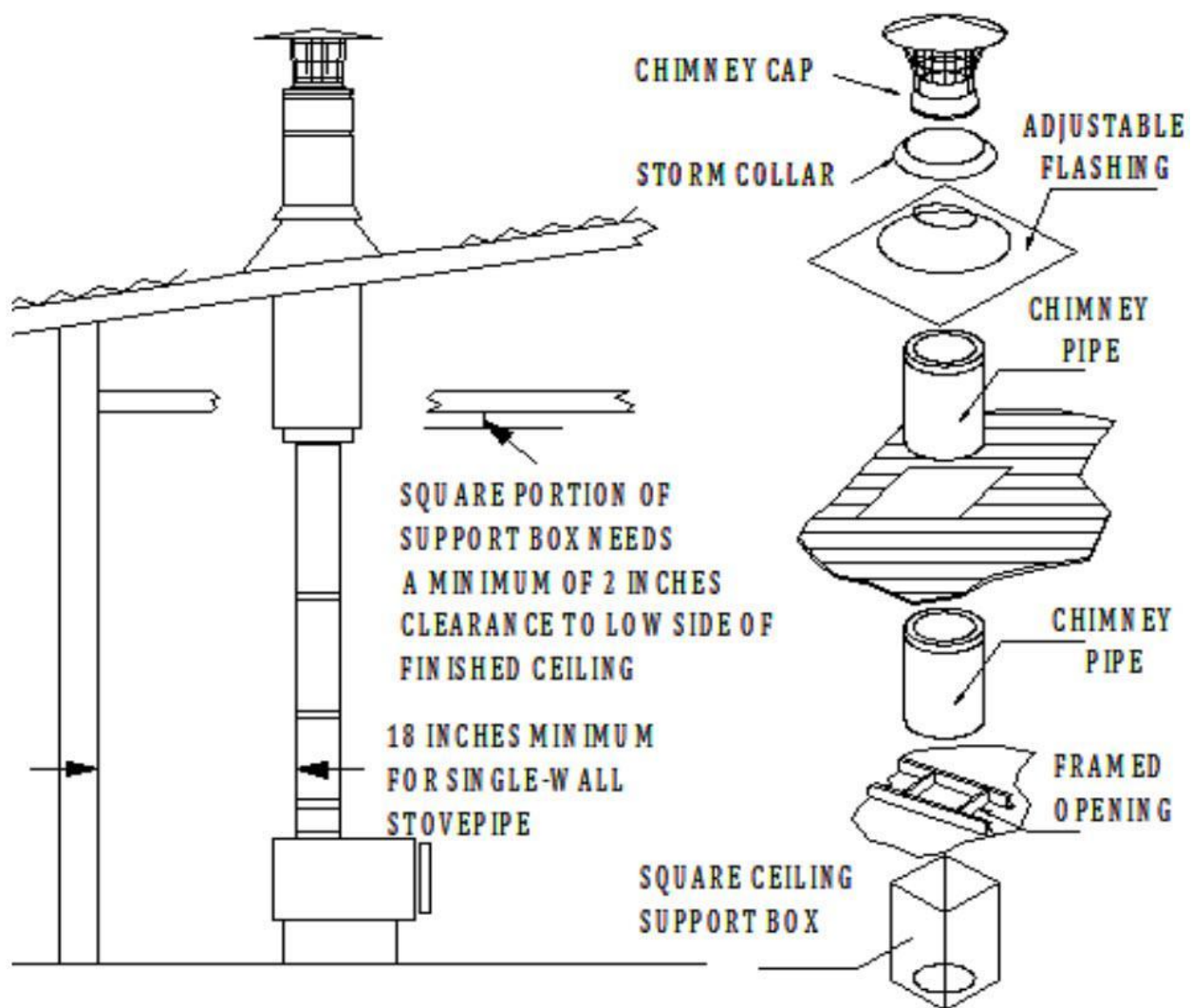


Fig 16

A Roof Support Bracket is used in installations where there is a cathedral ceiling and a Square Ceiling Support is not desired (often used in unfinished buildings, workshops, and garages). The Roof Support Bracket allows the Class A chimney to extend into the room below the ceiling level (Fig. 17). It can support a maximum of 45 feet of chimney in total, with no more than 20 feet below the support.

1. Cut and frame the opening in the roof to provide a minimum of 2" clearance on all sides of the chimney pipe.
2. Bolt on the Roof Support Brackets to the Roof Support Band using the supplied hardware. Attach the Roof Support Brackets to the roof using (4) 8-penny nails or (4) #8, 1-½" screws per side (Fig 17).

3. Determine how much Class A chimney will extend into the room (minimum of 3" below the finished ceiling). Be sure to maintain the proper clearance to combustibles (walls and ceilings) for the connector pipe. Once you have identified the proper height for your installation, attach the Roof Support Band to the Chimney Section by tightening the bolt and secure it with supplied hardware.
4. Attach desired length of Chimney Sections above and below the roof level (max. Of 45' total, 20' max below the support) (Fig 17).
5. Refer to Steps 9 & 10 in the Ceiling Supported Installation section (page 10 & 11) to complete the Roof Supported installation.

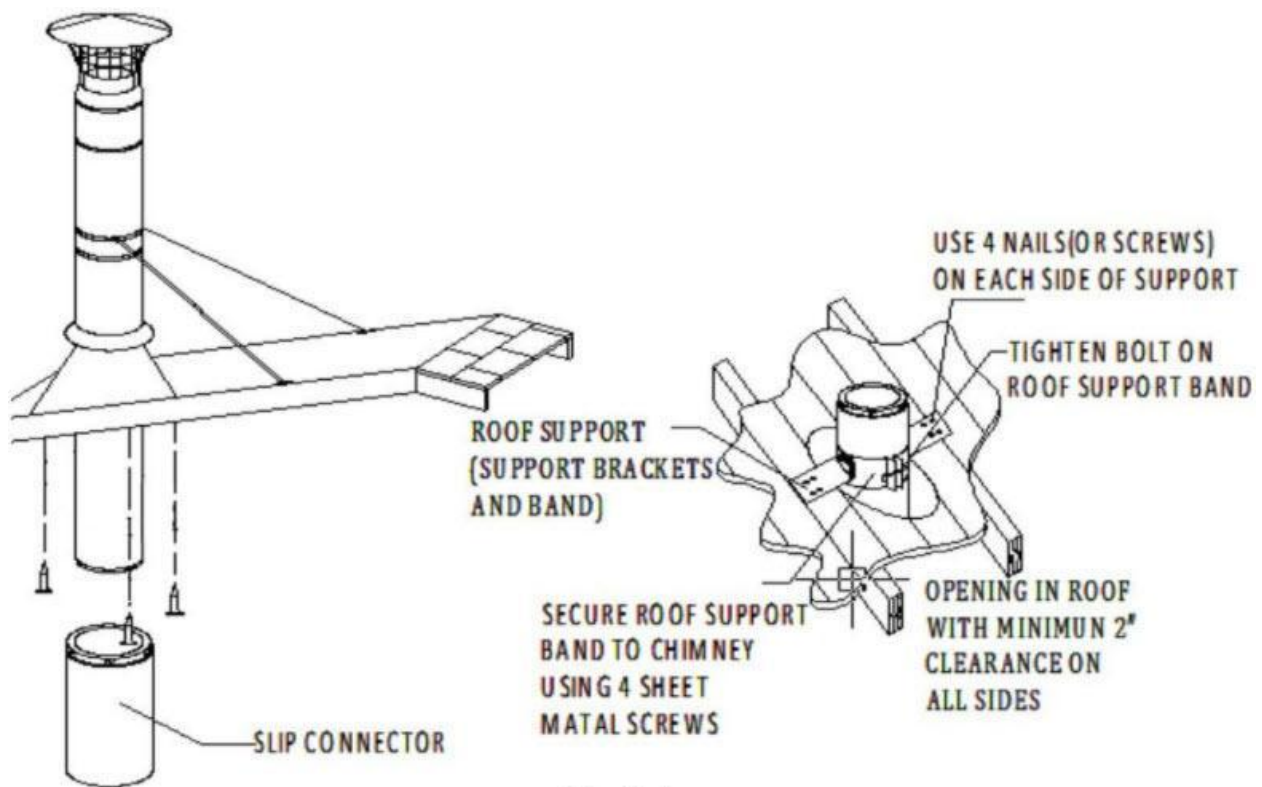


Fig 17

An Alternative Installation Location for the Roof Support Bracket: The Roof Support Bracket may be used at the bottom of a chimney installation (Fig. 18). This may be useful for some basement installations. Maintain a minimum of 2 inches of clearance to combustibles at all times. The Class A chimney must extend a minimum of 3 inches below the finished ceiling or exposed framing members. Do not extend the chimney all the way to the appliance; a stove pipe adapter and connector pipe are required to connect the chimney to the appliance collar.

1. Cut and frame opening to provide a minimum of 2" clearance on all sides of the chimney. Be sure to maintain the proper clearance to combustibles for the connector pipe.
2. Bolt on the Roof Support Brackets to the Roof Support Band using the supplied hardware. Attach the Roof Support Brackets to the floor joists using (4) 8-penny nails or (4) #8, 1-½" screws per side (Fig 18).
3. Determine how much Class A chimney will extend into the room (minimum of 3" below the framing), and attach the Roof Support Band to the chimney section by tightening the bolt. Secure it with the supplied hardware.
4. Install a Firestop Radiation Shield below the finished ceiling or framing members.
Note: You will need to modify the Firestop Radiation Shield by cutting down the metal cylinder to fit below the Roof Support Bracket. The modified Firestop Radiation Shield can only be used when installed with the Roof Support Bracket in this type of installation. Use a standard Firestop Radiation Shield at all other locations where the chimney passes through a floor or ceiling (including where the chimney passes into the attic if applicable).
5. Refer to steps 7-10 in the Ceiling Supported Installation section to complete the Roof Supported Installation (page 9-11).

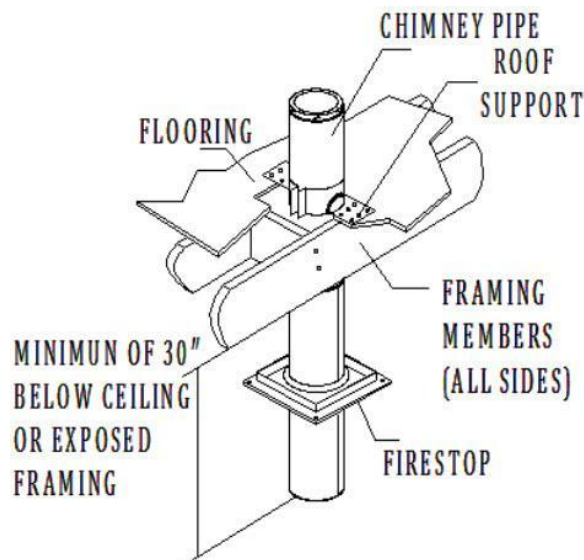


Fig 18

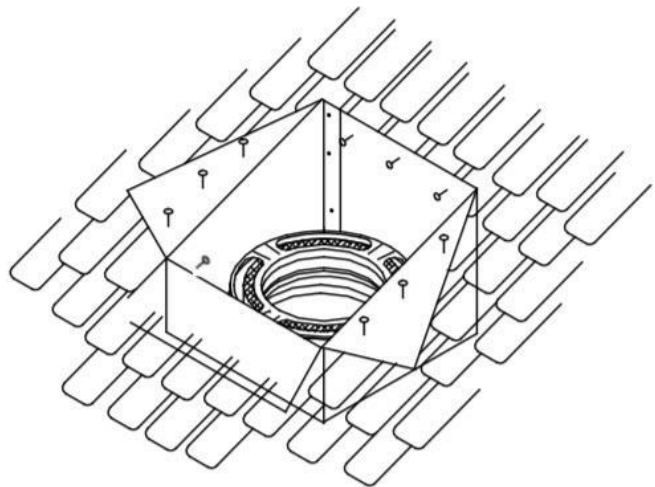


Fig 19

TEE-SUPPORTED INSTALLATIONS

Tee-supported installations are used when passing through a wall to an outside chimney. The Tee Support can hold a maximum of 52 feet of Class A chimney. The required parts and general configuration are shown in Figures 20 and 21.

1. **Place Appliance:** Position the appliance according to the manufacturer's instructions. It is a good idea to try to position the appliance so it will allow the chimney to line up centered between studs.
2. **Locate, Cut & Frame Opening:** Determine the location where the chimney will pass through the wall. The chimney should pass through the wall, centered between two studs. The height of the penetration can be determined by positioning sections of stove pipe until you have a desired configuration (refer to the appliance manufacturer's installation instructions for restrictions on stove pipe). Cut and frame an opening in the inner and outer walls at this location. Refer to Table 1 (page 6) for the appropriate framing dimensions.
3. **Install Wall Thimble:** From the outside wall, put the outer half of the Wall Thimble in the opening. Center the outer half of the Wall Thimble. Secure the Wall Thimble to the outside wall with at least (4) 8-penny nails or (4) #8, 1-½" screws. For concrete walls a Wall Thimble is not required. The hole on the wall just needs to be just large enough for the chimney pipe to pass through. Install the inner half (with round plate) of the Wall Thimble in the inside wall surface, ensuring that the shield slides into the shield of the outer half. Secure the Wall Thimble to the inside wall with at least (4) 8-penny nails or (4) #8, 1-½" screws.
4. **Install Base Wall Support, Tee and Tee Cap:** Assemble the Base Wall Support Kit (Figure 22) by attaching the 2 triangle brackets to the support plate, with the hardware supplied (female coupler of the insulated coupling section on the Base Plate faces down, male end faces up). Install one 6" Chimney Section (or longer as required) to the horizontal branch of the insulated Tee. Lock securely into the Tee by twisting clockwise. A locking band (included) must be installed at this connection. Make sure the clamp is facing down to prevent any water from collecting in the locking band.

From outside the building, slide the chimney length (previously installed on the Tee) through the Wall Thimble ensuring the male coupling on the Tee is facing upward.

Install the male coupler of the insulated coupling section on the support plate into

the female coupler of the Tee. Lock securely into the Tee by twisting clockwise. Place the assembled Wall Support against the wall (plate up) directly below the insulated coupling section of the Wall Support. Tighten the insulated coupling section and the support plate with the supplied lag screws (#14 x 2"). Then secure the whole Base Wall Support assembly onto the wall using #14 x 2" wood screws through the pre-punched slots in each bracket. **Important:** Verify that the Base Wall Support is level, and secure the leg brackets of the Tee Support to the wall (Fig 23). Finally, install the Tee Cap into the female coupler of the insulated coupling section. Lock securely by twisting clockwise.

5. **Complete Chimney:** Attach the chimney sections as in Step 7 in the Ceiling Supported Installation section (Page 9). Secure the chimney to the wall with Wall Brackets at a minimum of 8-foot intervals and maintain at least 2 inches of clearance to combustible materials. Slip the Wall Brackets around the chimney, tighten the bolts, adjust the clearance, and fasten the Wall Brackets to the wall. Once the chimney is at a minimum height specified in Figure 1, attach the Chimney Cap onto the top of the chimney by holding it by the collar and twist locking it clockwise onto the Chimney pipe. If the chimney penetrates an overhang, frame for at least 2 inches of clearance and install a Roof Flashing and Storm Collar as described in Steps 9 & 10 for Ceiling Supported Installations (page 10 & 11). Another option is to cut away the overhang for a 2 inch clearance (Fig 24). If the chimney extends more than 5 feet above the top Wall Bracket or Roof Flashing an Extended Roof Brace is required.
6. **Install Flat Roof Flashing:** It is recommended that you enclose exterior mounted chimneys below the roof line in geographical areas experiencing sustained low ambient temperatures to help reduce or limit condensation, creosote buildup and poor draft. If a chase enclosure has been constructed, you can use a Ventilated Flat Roof Flashing (Fig 25) to seal the chase.

MINIMUM 6 INCHES
CLEARANCE BETWEEN
CAP AND CHASE TOP

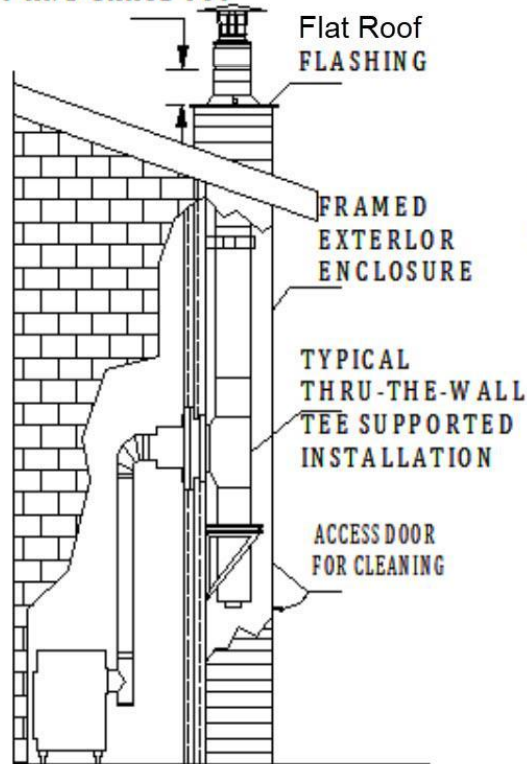


Fig 20

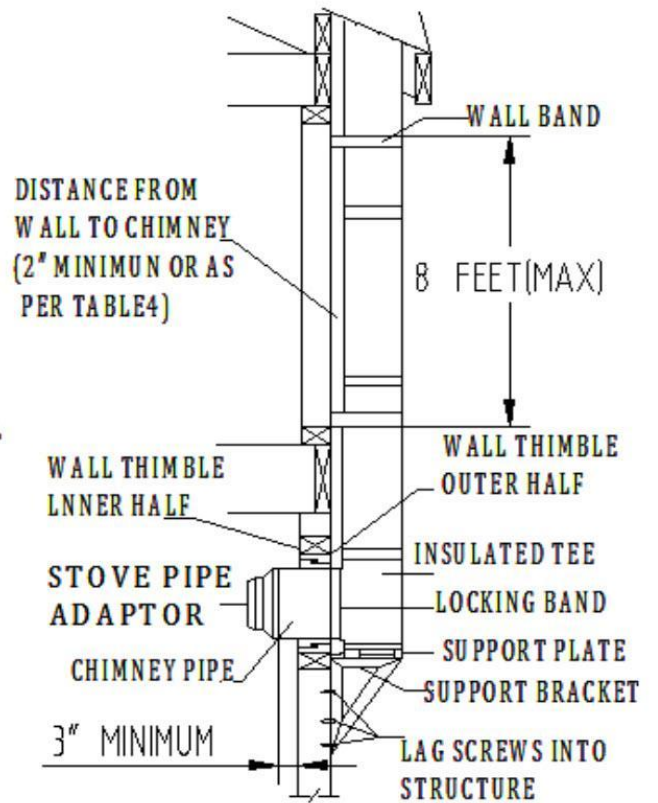


Fig 21

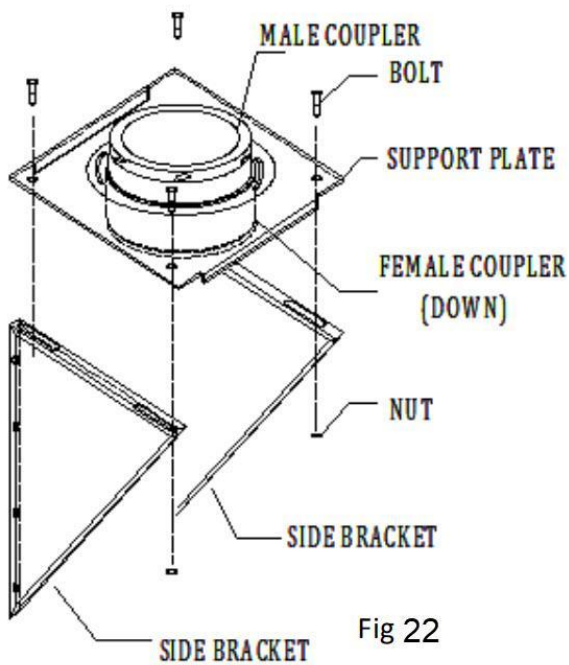


Fig 22

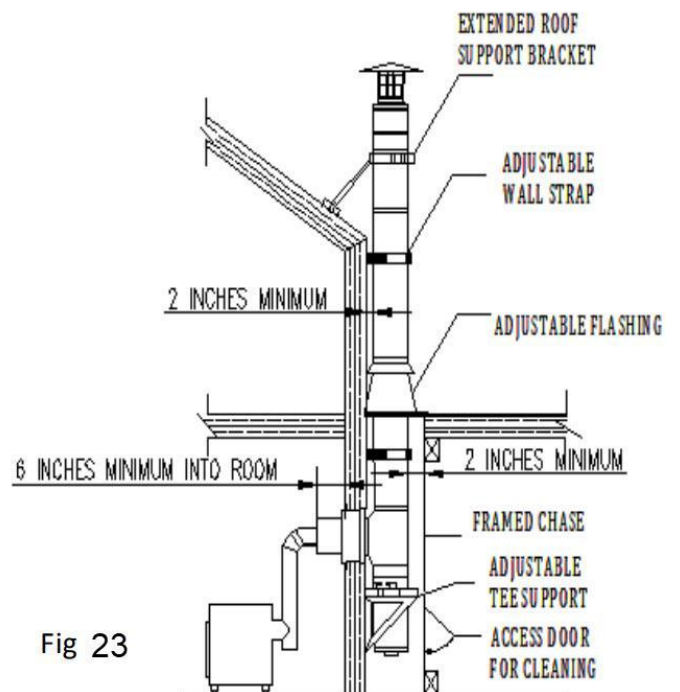


Fig 23

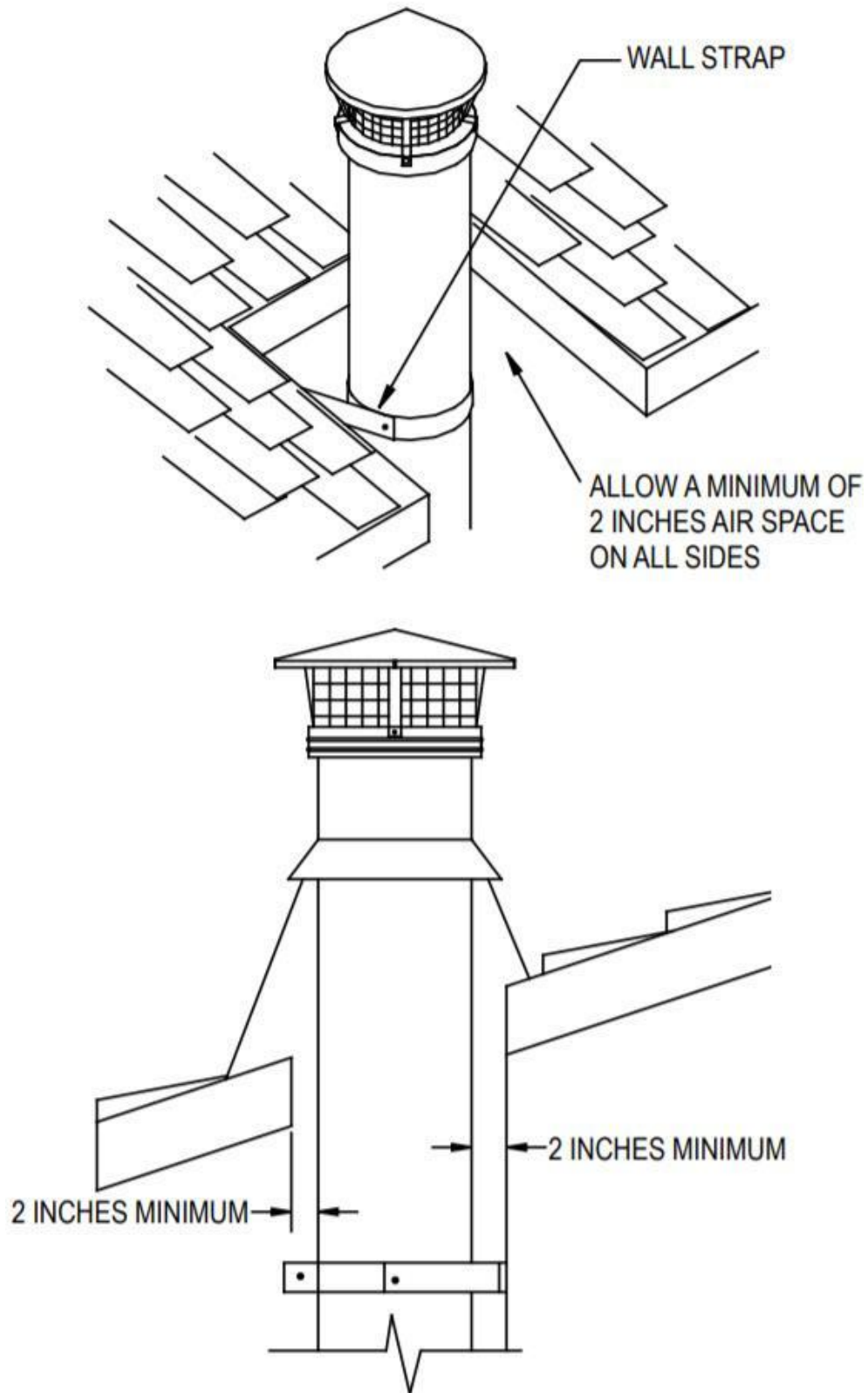


Fig 24

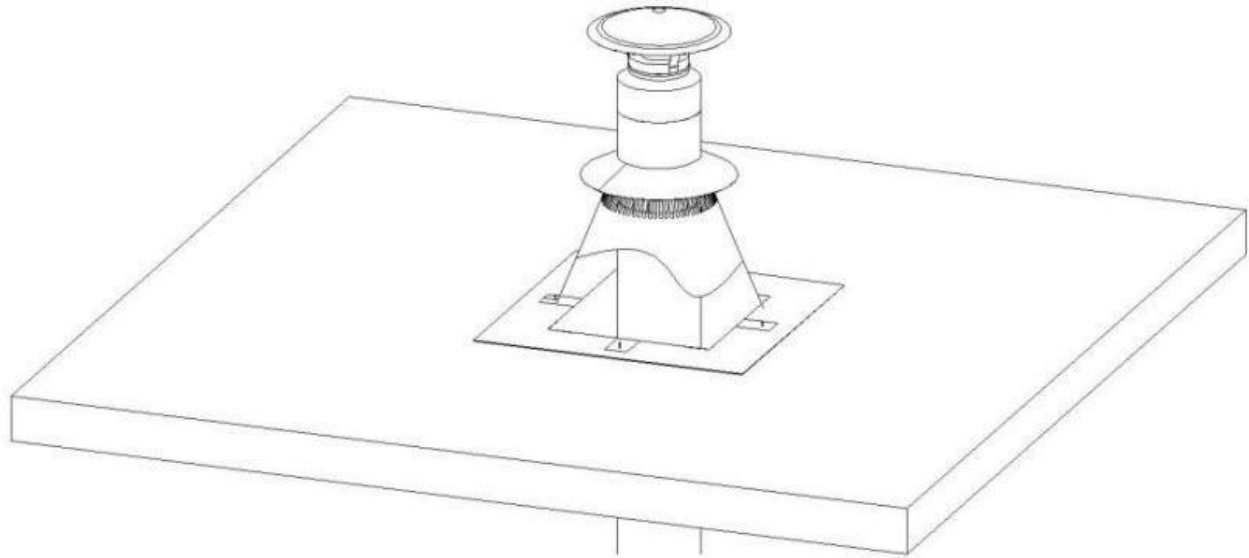


Fig 25

MASONRY FIREPLACE INSTALLATIONS

1. **Determine Chimney Size:** Use table 3 to determine the correct diameter chimney for your fireplace.
2. **Mount Anchor Plate:** Chimneys for masonry fireplaces begin with an Anchor Plate. Make sure the surface of the masonry chimney has a level surface on which to attach the Anchor Plate. If the top of the masonry does not have a level surface, then you will need to modify the masonry accordingly. Center the Anchor Plate over the masonry flue opening, and seal the Anchor Plate with a high-temperature (1000°F) sealant. Secure Anchor Plate with (4) ¼" x 2" masonry anchors (Fig 26). It is very important that the Anchor Plate is level. Be sure to maintain a 1" minimum clearance to combustibles from the Anchor Plate.
3. **Attach Chimney:** Twist lock the first chimney section clockwise onto the Anchor Plate.
4. **Finish Chimney:** Install the rest of the chimney as directed in the Ceiling Supported Installation section, Steps 4 through 10 (page 8-11). Refer to Figure 1 and Table 3 for chimney height requirements. Always maintain at least 2 inches of clearance to combustible materials, and enclose the chimney where it passes through occupied areas. Use a Wall Bracket for every 8 feet of chimney height.

Table 3

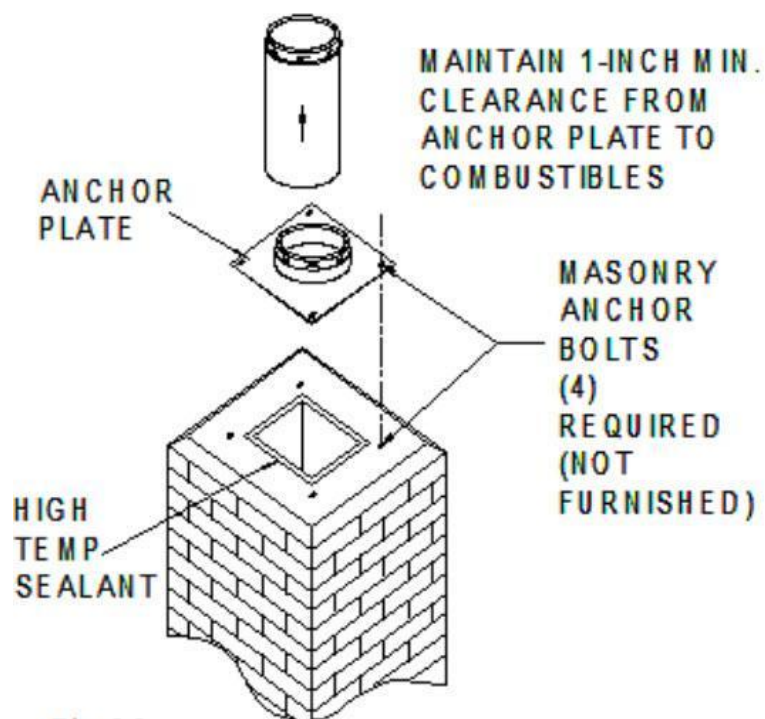
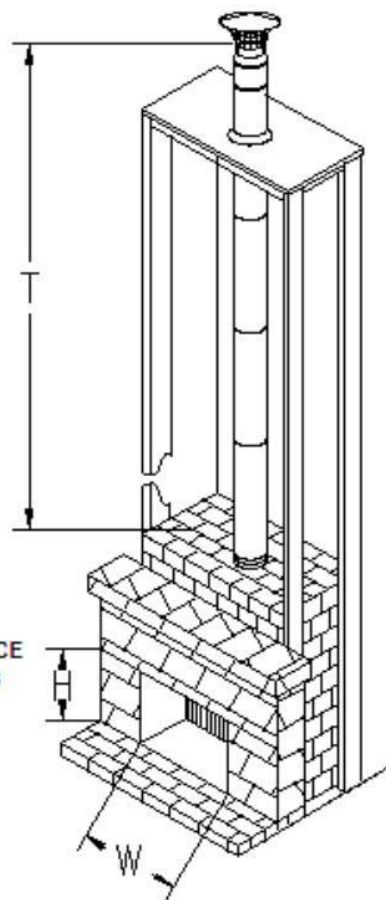
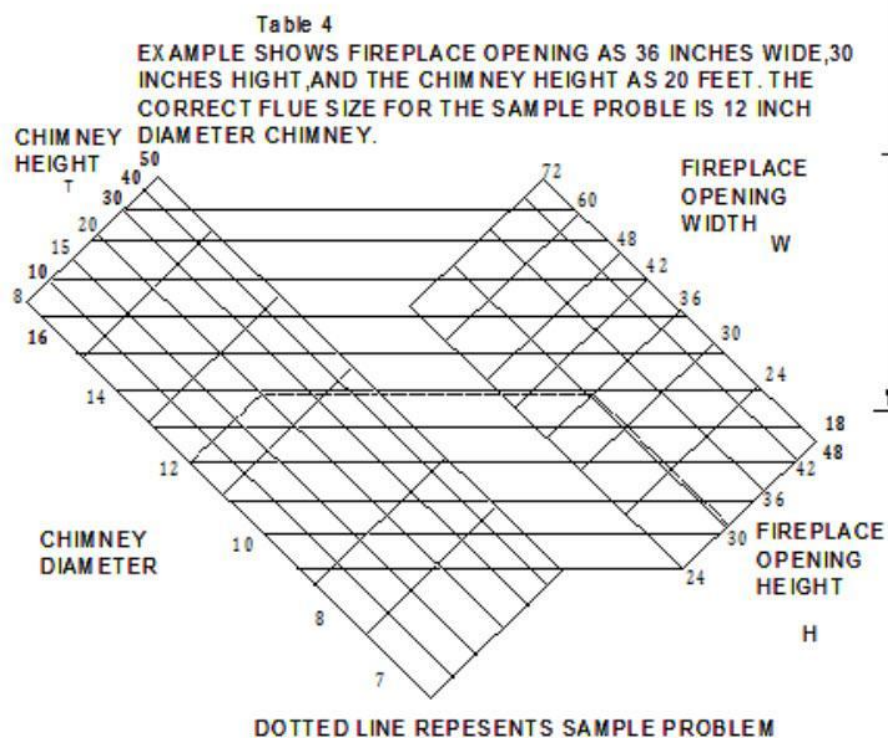


Fig 26

ZERO-CLEARANCE FIREPLACE INSTALLATIONS

1. **Manufacturer's Instructions:** Carefully read and comply with the appliance manufacturer's installation instructions for your fireplace. Be sure the chimney system is listed and approved for use with your appliance.
2. **Anchor Plate:** Attach an Anchor Plate to the fireplace top with (4) $\frac{5}{8}$ " sheet metal screws (Fig 27). Check with the appliance manufacturer about the use of high temperature sealants.
3. **Chimney sections:** Attach a Chimney Section to the Anchor Plate by twist locking clockwise.
4. **Completion:** Install the remainder of the chimney as instructed for a standard Ceiling Supported Installation, Steps 4 through 10 (page 8-11) (using a Firestop Radiation Shield in the 1st floor ceiling instead of the Support Box). Always maintain at least 2 inches of clearance to combustibles, and enclose the chimney where it passes through occupied areas.

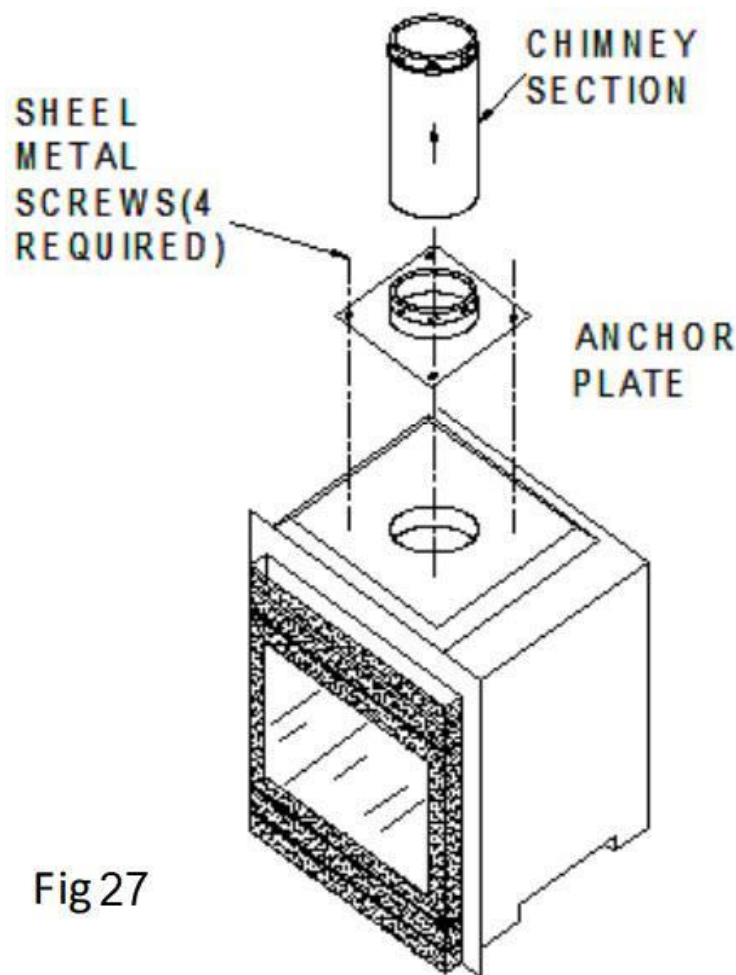


Fig 27

CHIMNEY MAINTENANCE

1. **Creosote and Soot - Formation and Need for Removal:** When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire, known as a chimney fire.
2. **Access:** Chimneys must be installed so that access is provided for inspection and cleaning.
3. **When to Clean:** The chimney should be inspected at least once every 2 months during the heating season to determine if creosote or soot buildup has occurred. Check spark arrestor screens at least every 2 to 4 weeks. If creosote or soot has accumulated it should be removed to reduce the risk of chimney fire.
4. **How to Clean:** Have your chimney cleaned by a professional chimney sweep if you have doubts about your ability to clean it. Use a plastic/poly brush. Do not use a steel brush that will scratch the stainless steel liner of your chimney. Scrub the spark arrestor with a wire brush. To remove the Chimney Cap for cleaning, either twist counter-clockwise and remove the entire cap, or unscrew the 4 screws that attach the cap's support legs to the cap base. The Tee Cleanout Cap can be removed by turning counter-clockwise. Be sure to replace the Tee Cleanout Cap when you are finished cleaning the chimney.
5. **Coal:** To reduce corrosion in chimneys where coal is burned, clean the chimney thoroughly without 48 hours of shutting down the stove for the season.
6. **Chemical Cleaners:** Use chemical cleaners only as a last resort, and use only products specifically approved by the chimney-system manufacturer as non-corrosive to the chimney liner.
7. **In Case of Fire:** If a chimney fire occurs, close all appliance air inlets, and call your local fire department. Do **NOT** use the chimney again until it has been inspected for possible damage.
8. **Painting:** As an option, you can coat all exterior metal parts, with the exception of the Chimney Cap, with high temperature, rust proof paint. Wash the metal with a vinegar and water solution before painting to remove oils. Painting the

chimney will help to increase chimney life.

9. Creosote Formation: It is the owner's responsibility to comply with the inspection and cleaning requirements described in these instructions and in the appliance manufacturer's instructions.