

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED

Permit No: 04-0740 Issue Date: JUN 04 2004 CBL: 392 B023001

Location of Construction: 153 Hope Ave	Owner Name: Brooks Kevin F &	Owner Address: 72 Bramblewood Dr	Phone: CITY OF PORTLAND
Business Name:	Contractor Name: Applicant	Contractor Address: Portland	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Single Family Home	Proposed Use: Single Family Home / install a Metalbestos Chimney	Permit Fee: \$30.00	Cost of Work: \$1,000.00	CEO District: 5
Proposed Project Description: install a Metalbestos Chimney		FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>NA</i>	INSPECTION: Use Group: <i>V</i> <i>BOLP 1999</i>	Type: <i>Heating</i>

Signature: _____ Signature: _____
 PEDESTRIAN/ACTIVITIES DISTRICT (P.A.D.)
 Action: Approved Approved w/Conditions Denied
 Signature: _____ Date: _____

Permit Taken By: Idobson	Date Applied For: 06/04/2004	Zoning Approval
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>6/4/04</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>6/4/04</i>
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PERMIT ISSUED
 JUN 04 2004
 CITY OF PORTLAND

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

PERMIT ISSUED
JUN 07 2004
Permit Number: 040740
CITY OF PORTLAND

BUILDING INSPECTION PERMIT

This is to certify that Brooks Kevin F & /Applicant
has permission to install a Metalbestos Chimne
AT 153 Hope Ave

392 B023001

provided that the person or persons, of the provisions of the Statutes of the construction, maintenance and use of this department.

or corporation accepting this permit shall comply with all line and or the Ordinances of the City of Portland regulating of buildings and structures, and of the application on file in

Apply to Public Works for street line and grade if nature of work requires such information.

Inspection must be procured by owner before this building or structure is occupied. IF NOT OTHERWISE REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. _____
Health Dept. _____
Appeal Board _____
Other _____

Department Name

Cheryl A. ...
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

AD **Pre-construction Meeting:** Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before any site work begins on any project other than single family additions or alterations.

- Footing/Building Location Inspection:** Prior to pouring concrete
- Re-Bar Schedule Inspection:** Prior to pouring concrete
- Foundation Inspection:** Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling
- Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Small Brooks
Signature of Applicant/Designee

6/7/04
Date

[Signature]
Signature of Inspections Official

6/7/04
Date

CBL: 392 B 23 Building Permit #: 040740

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 04-0740	Date Applied For: 06/04/2004	CBL: 392 B023001
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Location of Construction: 153 Hope Ave	Owner Name: Brooks Kevin F &	Owner Address: 72 Bramblewood Dr	Phone:
Business Name:	Contractor Name: Applicant	Contractor Address: Portland	Phone
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Single Family Home / install a Metalbestos Chimney	Proposed Project Description: install a Metalbestos Chimney
---------------------------------------------------------------------	----------------------------------------------------------------

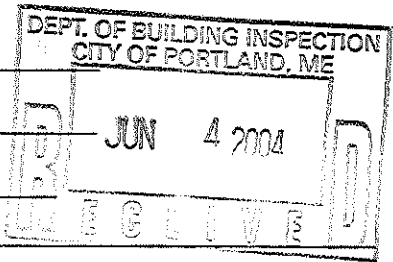
Dept: Zoning Status: Approved Reviewer: Tammy Munson Approval Date: 06/04/2004
 Note: Ok to Issue:

Dept: Building Status: Approved with Conditions Reviewer: Tammy Munson Approval Date: 06/04/2004
 Note: Ok to Issue:

- 1) A 2" air space must be maintained between the chimney and combustibles.
- 2) The chimney must terminate atleast 2' above any roof surface located within 10' horizontally of the chimney.

Signage/Awning Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>153 HOPE AVE Portland</u>		
Total Square Footage of Proposed Structure <u>2,887 sq Ft 392 B 23</u>	Square Footage of Lot <u>38,974 sq Ft</u>	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>23</u>	Owner: <u>Kevin Brooks</u>	Telephone: <u>878-8330</u>
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>Kevin Brooks</u> <u>72 Bramblewood Dr</u> <u>Portland ME 04103</u> <u>878-8330</u>	Total s.f. of signage x \$2.00 per s.f. plus \$30.00/\$65.00 for H.D. signage = Total Fee: \$ _____ Awning Fee = Cost Of Work: \$ <u>1,000.00</u> Total Fee: \$ <u>330</u>
Current use: _____		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: _____		
Project description: <u>Metalbestos Chimney</u>		
		
Contractor's name, address & telephone: _____		
Whom should we contact when the permit is ready: <u>Kevin Brooks</u>		
Mailing address: <u>72 Bramblewood Dr Portland ME 04103</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A STOP WORK ORDER will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: _____		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT. WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

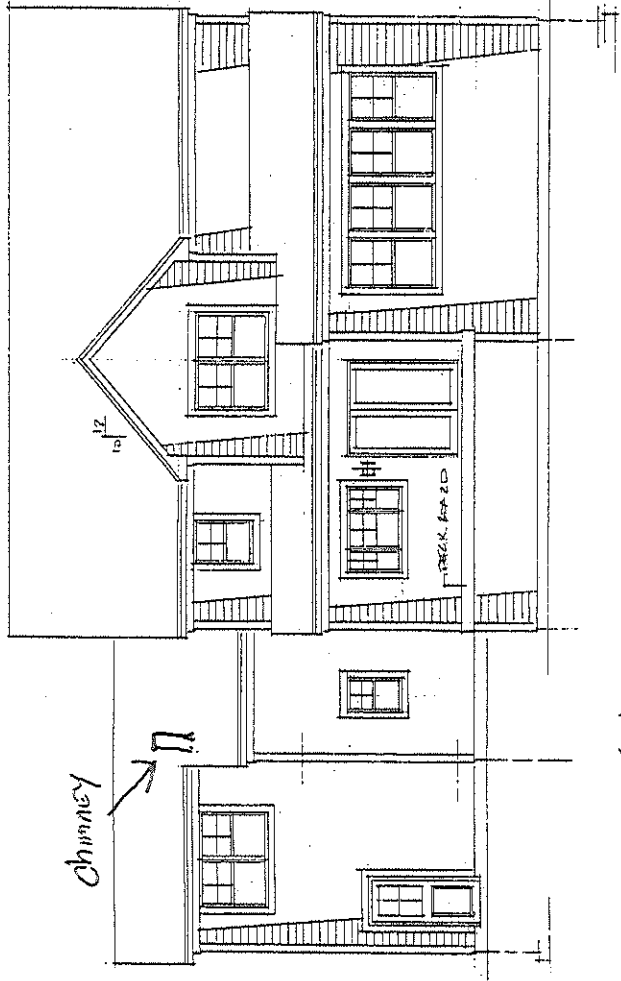
I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Kevin Brooks</u>	Date: <u>6/3/04</u>
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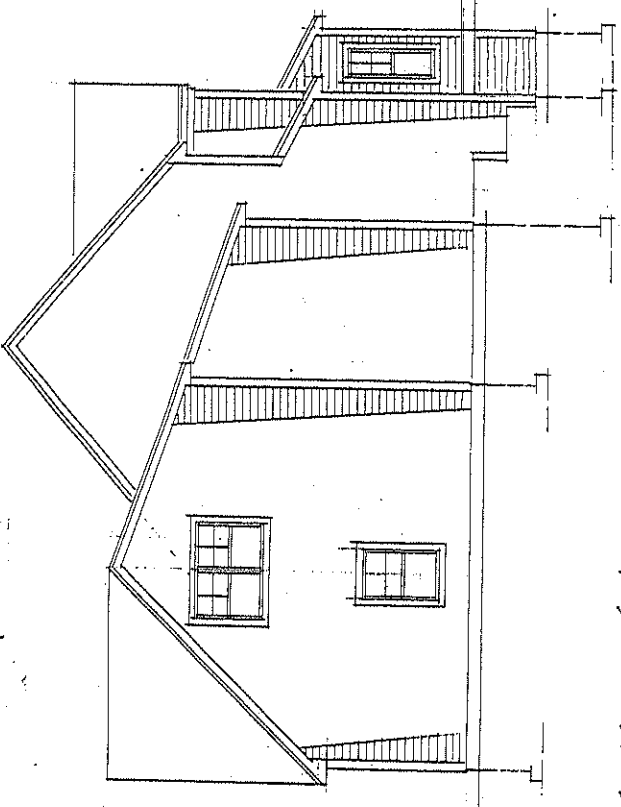
This is NOT a permit, you may not commence ANY work until the permit is issued.

GENERAL NOTES

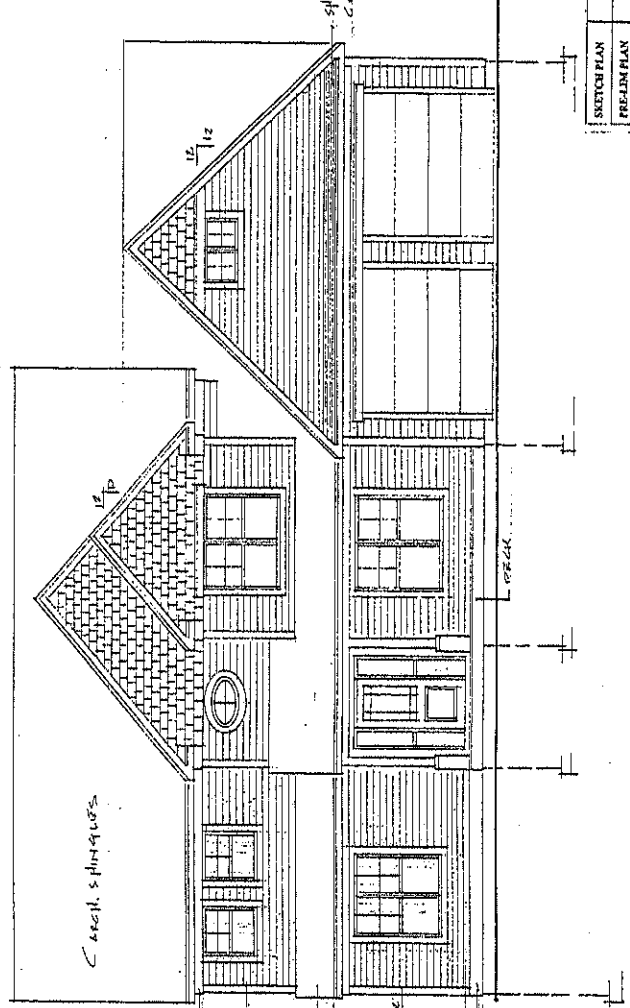
1. Plans are designed to comply with the 1999 International Residential Code and all applicable codes and regulations that may be in effect at the time of construction.
2. All work shall be in accordance with the specifications and standards of the manufacturer of the materials and equipment to be used.
3. All work shall be in accordance with the specifications and standards of the manufacturer of the materials and equipment to be used.
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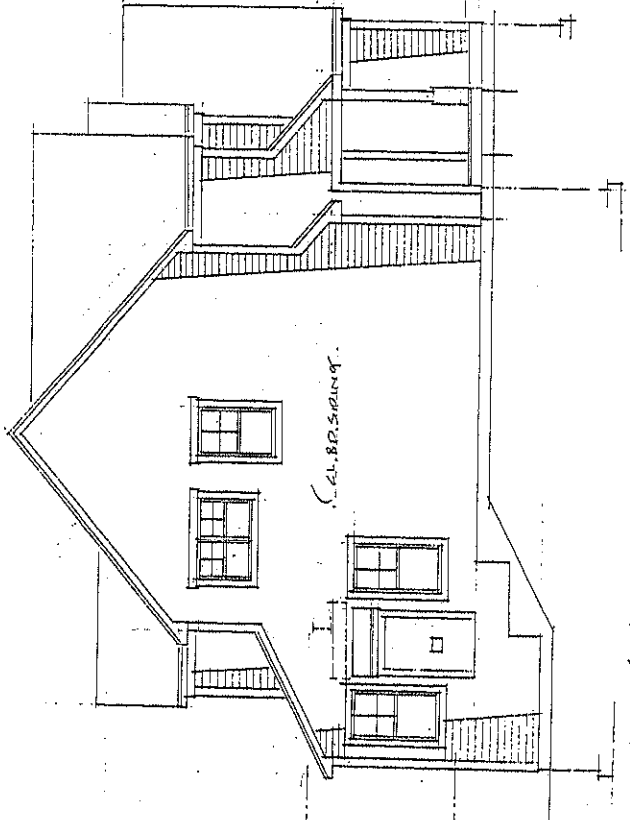
FRONT ELEVATION



RIGHT ELEVATION



BACK ELEVATION



LEFT ELEVATION

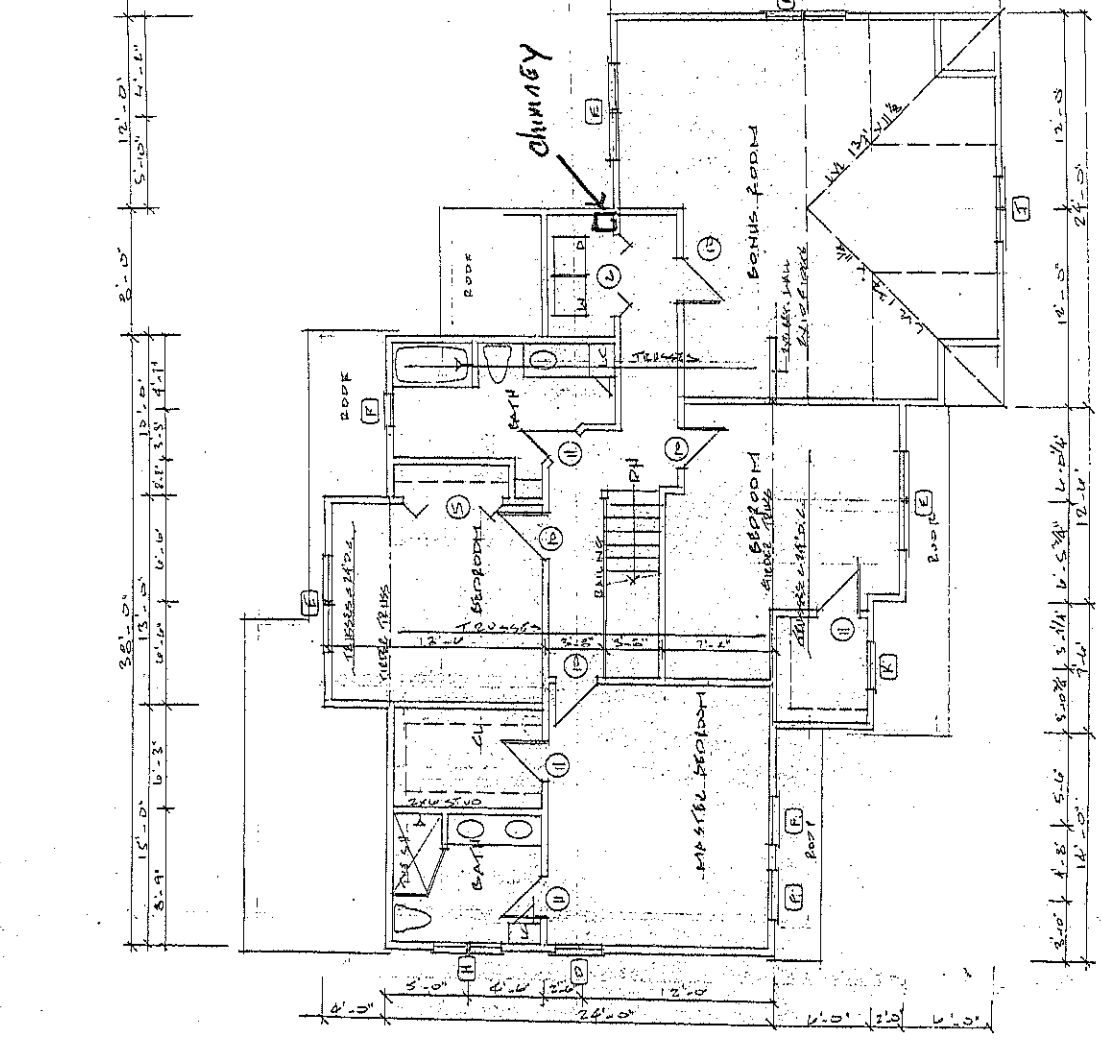
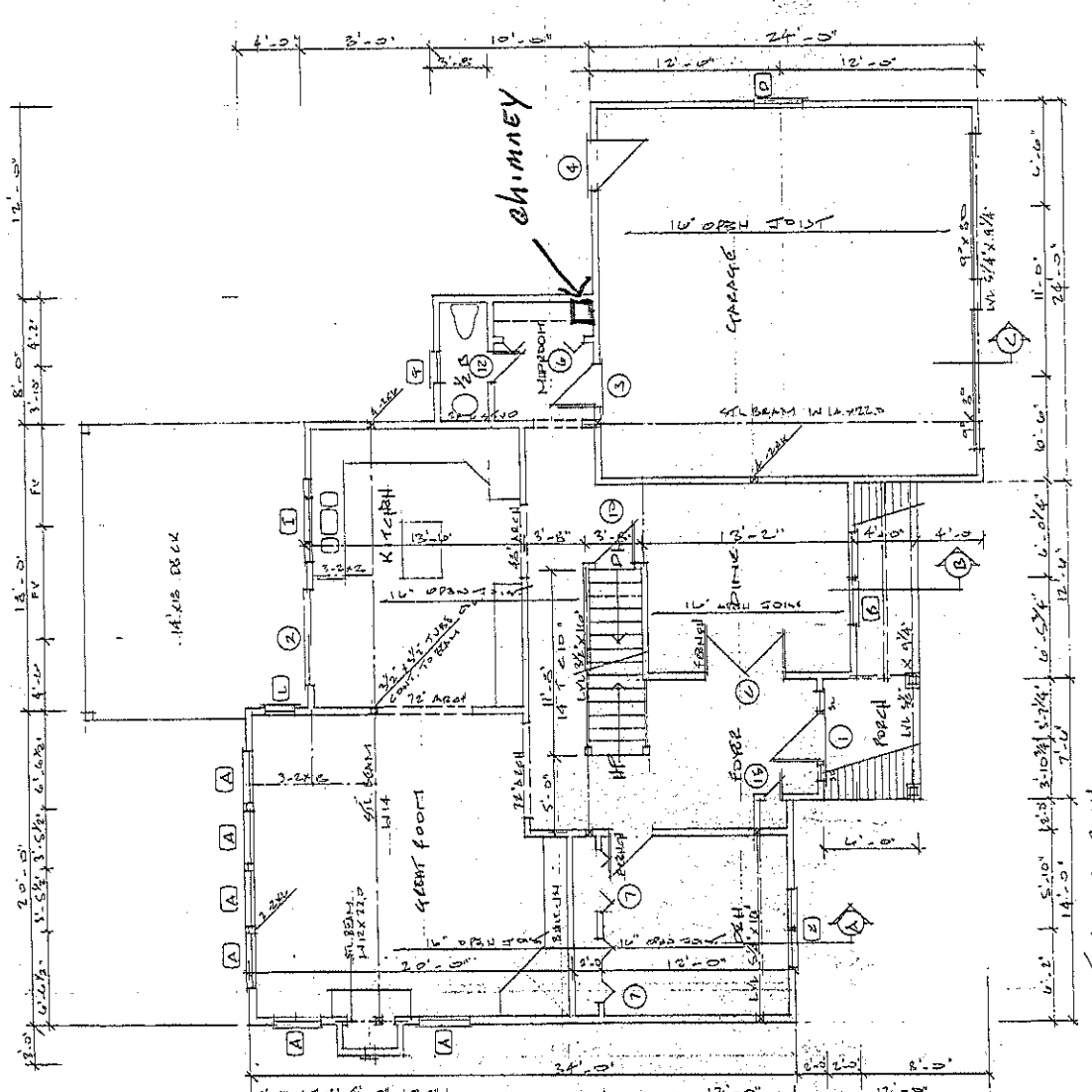
SKETCH PLAN	
PRELIM PLAN	
FINAL PLAN	
RELEASED FOR CONSTRUCTION	

WINDOW SCHEDULE

A	04 x 52
B	04 x 52
C	04 x 52
D	04 x 52
E	04 x 52
F	04 x 52
G	04 x 52
H	04 x 52
I	04 x 52
J	04 x 52
K	04 x 52
L	04 x 52
M	04 x 52

DOOR SCHEDULE

1	30' X 68' EXTERIOR
2	30' X 68' EXTERIOR
3	30' X 68' EXTERIOR
4	30' X 68' EXTERIOR
5	30' X 68' EXTERIOR
6	30' X 68' EXTERIOR
7	30' X 68' EXTERIOR
8	30' X 68' EXTERIOR
9	30' X 68' EXTERIOR
10	30' X 68' EXTERIOR
11	30' X 68' EXTERIOR
12	30' X 68' EXTERIOR
13	30' X 68' EXTERIOR
14	30' X 68' EXTERIOR
15	30' X 68' EXTERIOR
16	30' X 68' EXTERIOR
17	30' X 68' EXTERIOR
18	30' X 68' EXTERIOR



**STATE OF MAINE
CHIMNEY OR FIREPLACE DISCLOSURE**

Dear Consumer: State law, specifically 32 M.R.S.A., Chapter 33, requires chimney or fireplace installers, as of January 1, 1992, to provide you with this Disclosure prior to the installation work being done on your chimney or fireplace. The purpose of this Disclosure is to help you, as a consumer, make an informed decision as to the abilities of the installer and under what requirements the installation must comply. It is important to note that the State of Maine does not require registration or licensure of chimney or fireplace installers; however, it is just as important to realize that many fires are caused each year by improperly constructed fireplaces and chimneys. For further information about this law, call the Division of Licensing & Registration at 624-8629 or write to the Division at #35 State House Station, Augusta, Maine 04333.

INSTALLER INFORMATION

Name of Installer Mark Morris
 D.B.A. Morris Construction
 Name of Installer (if incorporated) _____
 D.B.A. _____
 Legal Address 166 Howes Corner RD TURNER
(Street and No.) (City or Town)
ME Androscoggin 04282
(State) (County) (Zip Code)
 Home Telephone 207 1224 17829 Business Telephone 207 1 754 1 9362
 Years of experience doing fireplace or chimney installations 18

CONSUMER IDENTIFICATION

Consumer's Name Kevin Brooks
 Mailing Address 72 Bramblewood Dr Portland
(Street and No.) (City or Town)
ME Cumberland 04103
(State) (County) (Zip Code)
 Home Telephone 207 878 18330 Business Telephone 207 1 867 17827

Installer, please give a brief description of installation being offered.

I will be installing 28' of 6" metalbestos Platinum Series Ultra temp chimney. Chimney will be enclosed in a 14" x 24" sheet on 1st floor and a 14" x 14" sheet on second floor. Both floors will have firestop and adequate bracing.

I, Mark Morris, the installer, hereby attest that the preceding information provided is true to the best of my knowledge. I also understand that if I fail to conform with the standards as outlined in NFPA 211 that I shall be subject to penalties as outlined under Title 32, Chapter 33, Oil and Solid Fuel Board.

Signature Mark Morris Date 6/3/04

INSTALLATION STANDARDS

Please check the type of unit(s) that will be installed:

Factory-Built Chimney and Chimney Units.

Factory-built chimney and chimney units shall be listed and shall be installed in accordance with the temperature conditions of the listing and the manufacturer's instructions and all requirements of NFPA 211 for chimneys, fireplaces, vents and solid fuel appliances.

Masonry Chimney.

Masonry chimneys shall be designed, anchored, supported and re-enforced as required by NFPA 211 for chimneys, fireplaces, vents and solid fuel appliances.

Metal Chimney.

Metal chimneys shall be constructed in accordance with NFPA 211, and shall apply good engineering practices as necessary for:

- 1. Strength to resist stress
- 2. Adequate anchoring and bracing
- 3. Durability
- 4. Security against leakage
- 5. Allowances for thermal expansion

Factory Built Fireplace.

Factory built fireplaces shall be listed and shall be installed in accordance with the terms of its listing and all applicable sections of NFPA 211.

Masonry Fireplace.

Masonry fireplaces shall meet the requirements of NFPA 211, Chapter 7 and all other pertinent sections.

Other

Please list on separate sheet of paper if making repairs of pre-existing chimneys, such as repair or replacement of chimney liners, etc.

CONSUMER CHECKLIST

1. Have you asked for references to be provided by the installer?
2. Is the installer familiar with the NFPA 211 codes and does the installer carry a code book?
3. If the installation is a pre-fabricated or fireplace, is its manufacturer registered with the Maine Oil & Solid Fuel Bd.
4. Does the installer provide any type of written guarantee for the product installation being proposed?
5. Has the installer provided you with a written contract? 10 M.R.S.A. Chapter 219-A requires written contracts for any home remodeling or construction with an estimated cost in excess of \$1,400.
6. Have you asked the local fire department or code enforcement officials to inspect the installation during and after completion?

Metalbestos Chimney Systems (USA Only - See separate instructions for Canada)

Sheet **GS**

Installation Instructions

Covering - General Installation Instructions & Owner's Maintenance Guide

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.

METALBESTOS CHIMNEY SYSTEMS-MODELS, PART NAMES AND NUMBERS

Metalbestos Chimney Systems (MCS) consist of the following Models - UT (Ultra Temp), ST (Sure Temp), GT (Galva Temp), SG Plus and SSII.

The complete part number is prefixed with the ID size, in inches, followed by one or two letters identifying the system to which it belongs, followed by the actual part identifier.

All accessory parts for the Metalbestos Chimney System (all models) include a letter "T" in the prefix and may be used with all Models unless otherwise indicated.

All Model SSII chimney sections (straight lengths, tees, elbows) also contain the letter "T" in the prefix.

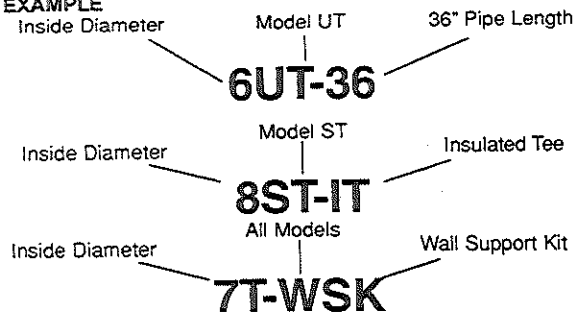
All Model UT, ST and GT chimney sections (straight lengths, tees, elbows) contain the letters "UT", "ST", and "GT", respectively in the prefix.

All Model SG Plus chimney sections (straight lengths, tees, elbows) contain the letters "GP" in the prefix.

Fig. 1, 2, and 3 show the names and locations of commonly used chimney parts. These figures use only the last portion of the part number. The complete part number is prefixed with I.D. size, followed by chimney model and part number.

IMPORTANT: Chimney sizes 5", 6", 7" and 8" are Type HT and carry a "T" in the part number. Larger sizes use an "S" in the part number.

FOR EXAMPLE



NOTE: Use only Metalbestos Chimney System Listed components and accessories. Do not use pipe by itself or attempt to fabricate your own support or accessories.

CAUTION: IF YOU ARE BURNING COAL

Some types of coal in certain designs of stoves may, in rare instances, cause corrosion of the inner parts of the Metalbestos Chimney System. Inspect and clean your chimney frequently to keep it free of coal, ash and soot deposits. Also see "Sizes and Applications" section.

If damage to the flue is observed, contact your Selkirk Metalbestos dealer or Department C, Selkirk Metalbestos, P.O. Box 372, Nampa, Idaho 83653-0372, with a description of your chimney problem.

The Metalbestos Chimney System is not recommended if you are burning ocean driftwood. The salt in this wood may cause product failure.

MINIMUM CLEARANCE

Where installed within buildings, the Metalbestos Chimney System may be

SPECIAL WARNING ON CELLULOSE INSULATION

Cellulose insulation in direct contact with a hot chimney can ignite and smolder, and can set fire to ordinary wood framing materials. The AIR SPACE ONLY precaution applies to all blown-in or loose fill insulations, but is especially applicable to cellulose insulation, which may be made from old newspapers or other cellulose materials. The Attic Insulation Shield or a suitable enclosure with appropriate fire stops must be used to keep all insulation the proper distance away from the chimney.

WARNING
 Failure to follow the installation instructions could cause FIRE, CARBON MONOXIDE POISONING, OR DEATH. If you are unsure of installation requirements, call the Phone Number listed on the instructions or sizing handbook.

fully enclosed at 2 inches minimum AIR SPACE clearance to combustibles, including framing lumber, drywall, plaster, plywood and other building materials classed as combustible. For support framing, see table on back page.

AIR SPACE ONLY

The minimum clearance to Metalbestos Chimney System pipe means AIR SPACE ONLY. The 2 inch clearance to pipe, and the spaces around supports must not be filled with any type of insulation. In attics with blown-in or batt insulation, the chimney must either be fully enclosed or an Attic Insulation Shield must be used to create and maintain the proper minimum airspace.

SIZES AND APPLICATIONS

The Metalbestos Chimney System is made in 5", 6", 7", 8", 10", 12", and 14" sizes. The four smaller sizes conform to UL-103 Type HT requirements. All seven sizes comply fully with the requirements of the 9th Edition of UL Standard 103. Chimneys installed in accordance with these instructions will comply with national safety standards such as NFPA 31, 54 or 211. The Metalbestos Chimney System may be used for gas, wood and liquid fuel-fired stoves, fireplace stoves, central furnaces, floor furnaces, steam and hot water boilers, unit heaters and water heaters. It may also be used for masonry fireplaces.

These Metalbestos Chimney Systems are designed for gravity venting only. They are usable on any appliance having a power burner (such as oil furnace) if that appliance operates with neutral or negative draft at its outlet.

Non-residential appliances which may cause positive pressure in the chimney should use a Selkirk Metalbestos Model PS or IPS system.

The Metalbestos Chimney Systems, sizes 10", 12", 14", are ideal for venting gas (natural and LP), #2 oil, and open front wood burning appliances.

DETAIL INSTRUCTION SHEETS

Details for the installation of all chimney parts must be observed by referring to other instructions as follows:

	Sheet
Finish or Ceiling Supports*, Connectors	S-1
Fire Stops, Attic Insulation Shields*	S-2
Round Top*, Flashing, Spark Arrester	S-3
Roof Support Package*, Anchor Plate*	S-4
Insulated Tee*, Wall Support Kit*	S-5
Insulated Elbow*, Interior Resupport*	S-5
Firestop / Joist Shield*	S-7
Support Box*	S-9

If you are installing any of these parts in packages marked, you should receive the proper instructions in the package. You may also request a complete set of instructions from your dealer.

This sheet of general instructions is furnished with all UL listed chimney supports. It covers important safety precautions in the installation, operation and maintenance of your appliance and chimney. Anyone installing a chimney should review this sheet as well as those furnished with the other parts of the chimney system. Selkirk Metalbestos chimney parts LISTED and produced under the Factory Inspection and Follow-Up program of Underwriters' Laboratories, Inc. carry the LISTING MARK illustrated here.



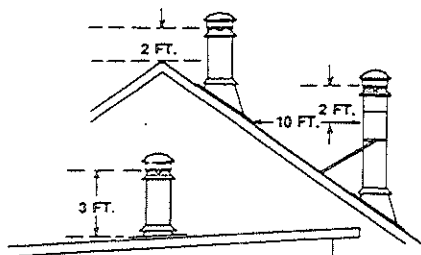


FIG. 4 RULES FOR CHIMNEY HEIGHT ABOVE THE ROOF

CHOOSING YOUR HEATING APPLIANCE

There are three important rules for selecting a woodburning stove, fireplace or heater.

FIRST Look for a label or nameplate attached to the appliance which bears the mark or name of a well-known safety testing organization* or laboratory.

SECOND Don't buy a solid fuel heating appliance which is bigger than necessary.

THIRD Look or ask for complete installation, operating and maintenance instructions for the appliance. If you can't get these, buy one that gives you all these very important details.

*Such as Underwriters' Laboratories, Inc. or Intertek Testing Services.

APPLIANCE SAFETY

Be sure to follow all details of the instructions for your solid fuel burning appliance. You should give preference to the purchase of an appliance which either has a label or includes detailed instructions showing all required clearances to floor and walls. If necessary, these clearances may be reduced by use of a tested and "Listed" (by UL, for example) protection system, or by one of the methods described in NFPA Standard 211.

For the chimney connector, the appliance instructions take precedence over the 18 inch clearance shown in these instructions (or in building codes). The 18 inch minimum clearance dimension applies only if there is no other information for the connector.

When protecting walls or ceilings from the heat of a connector, be sure to leave at least a 1 inch ventilated air space between the protection material and combustible construction. It is ineffective and possibly dangerous to apply ordinary brick, or any similar dense material directly to a wood framed wall for the purpose of reducing safe clearances.

EACH SOLID FUEL APPLIANCE SHOULD HAVE ITS OWN CHIMNEY

* Stoves of air-tight or controlled combustion design may be difficult to operate if some other appliance is connected to the same chimney.

* Open front, freestanding or built-in fireplaces may need all the draft produced by a minimum height of chimney. Interconnecting them or their chimney with another appliance may be prohibited by their instructions and may cause smoking problems.

* Never connect a gas-burning appliance into a chimney for any wood-burning stove, heater or fireplace. This is extremely dangerous because a chimney blocked with creosote (or anything else) may cause the connected gas appliance to produce poisonous carbon monoxide.

* For these and other reasons, don't ever inter-connect your solid fuel appliance with anything else, not even another solid fuel appliance. There are simply too many things that can go wrong if you do.

GENERAL INSTALLATION INSTRUCTIONS

A correct easily-maintained chimney installation has five important parts:

1. Proper support, both vertical and lateral, with access for inspection and maintenance.
2. Adequate clearance to combustible materials for single wall connector or smoke pipe.
3. AIR SPACE clearance of 2 inches for insulated chimney parts.
4. All vertical intermediate ceiling or floor penetrations completely framed and firestopped with specified chimney parts.
5. All connector and chimney joints completely secured against unlocking with three screws or with locking bands. See diagram for screw location.

PROPER SUPPORT

Vertical chimneys may be supported in these ways:

1. Ceiling Support with all chimney stacked above. See sheet S-1.
2. Roof Support, with one or more lengths suspended below and with total height limits depending on factors such as roof pitch and height. See sheet S-4.

3. Appliance Support, with the Metalbestos Chimney System starting at the appliance outlet. This is permissible if this method is shown in the appliance instructions, or with masonry fireplaces.

4. Wall Support with Insulated Tee. See Sheet S-5.

5. Support Box. See Sheet S-9.

6. Proper lateral support is also necessary and may be provided by wall bands, firestops, roof braces and/or all the supports listed above. Maximum spacing between components providing lateral support is 8 ft (See sheets S-2, S-3, and S-5).

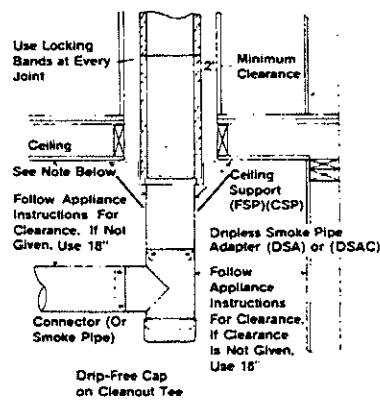
Because of thermal expansion problems, only one of these support methods should be used for a vertical installation. For example: Do Not use both a ceiling support and a roof support for the same chimney. If additional vertical support is needed, use an Interior Resupport (IR). (See Sheet S-5).

OBSERVE CLEARANCE TO COMBUSTIBLE MATERIAL AND SLOPE FOR CONNECTOR OR SMOKE PIPE

The connector or smoke pipe is the sheet metal pipe between the appliance and the chimney. Different types of fuels and appliances have different connector clearances to combustible walls and ceilings. These clearances will be shown in the appliance instructions.

Whatever clearances and connector arrangements are shown in the appliance instructions, these must be followed rather than the arbitrary 18 inch dimension. This is important if tests have shown that more than 18 inches clearance is necessary, or if the location of the stove or heater necessitates more clearance. See Fig. 5.

Combustible materials include such things as framing lumber, plywood, drywall (sheet rock, plaster board, lath and plaster, gypsum board) and also furniture and curtains. Building insulation of any kind, including batts, foams, boards and especially loose fill cellulose fiber, must also be kept



NOTE:
The purpose of the diagonal arrows is to show that the 18 inch clearance DOES NOT APPLY to the vertical connector entering a Finish Support. This support is actually tested with a bare vertical connector and must pass the UL tests with very hot gases entering the bare single wall pipe.

FIG. 5 CONNECTOR CLEARANCES

away from the chimney in the same manner as combustible materials. Passing a bare smoke pipe or connector of a wood burning appliance through a combustible stud wall is not recommended, as the entire inside of the wall must be cut away to get 18 inch clearance (usually at least a 40 inch circle). Wherever possible, locate the Metalbestos Chimney to avoid penetrating a wall with a single wall connector. Besides following the appliance instructions for connectors, other rules for solid fuel appliance connectors are:

1. Never enclose vertical single wall pipe, even at 18 inches clearance.
2. Never run it through ceilings or floors, or windows.
3. Don't use single wall pipe outdoors.
4. Always secure all single wall pipe joints with at least 3 screws.
5. Obtain proper attachment parts for the appliance end and for the entry to the chimney. See the Metalbestos Chimney System catalog for the proper size Dripless Smoke Pipe Adapter (DSA) or (DSAC), or Chimney Pipe Adaptor (CPA).
6. Locate and support the connector to avoid accidental contact or damage.
7. Caps or plugs for tees should be secured against falling out and designed so they can't leak creosote or rain.
8. Heavy weight single wall pipe lasts longer. Use 24 gauge if possible.
9. Porcelain enamel is the best high temperature protective finish but requires careful handling and may be difficult to assemble securely except in a vertical position and could produce noxious odors if overheated.

Metalbestos Chimney Systems (USA Only - See separate instructions for Canada)

S-1

Installation Instructions Covering - Finish Ceiling Support, Ceiling Support & Connections

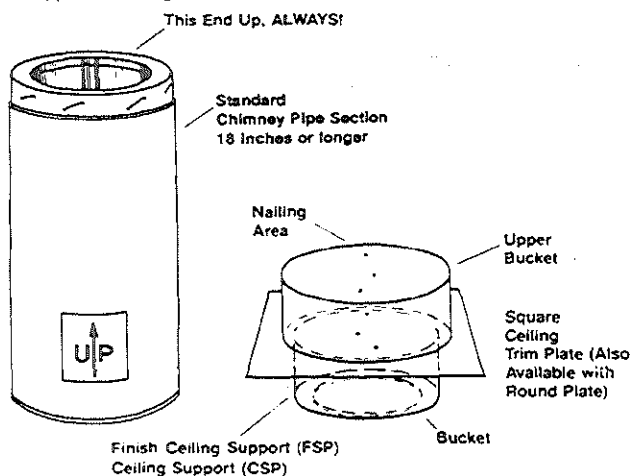
Read Sheet GS for important clearance and safety precautions before installing any of the parts described by this Sheet. Sheet GS is packaged with Supports.

⚠ WARNING

Failure to follow the installation instructions could cause **FIRE, CARBON MONOXIDE POISONING, OR DEATH**. If you are unsure of installation requirements, call the Phone Number listed on the instructions or sizing handbook.

FINISH CEILING SUPPORT (5", 6", 7", 8") CEILING SUPPORT (10", 12", 14")

These Metalbestos Chimney Systems Ceiling Supports (FSP and CSP) are intended for installation below both finished and unfinished ceilings. The round or square fire stop plate fits up against a ceiling, or a joist opening framed level on all four sides. It is adaptable to all types of chimney-connected appliances, including freestanding fireplaces, solid fuel room heaters, furnaces, stoves and both gas and oil-burning equipment. To start a vertical ceiling-supported chimney, simply place a length of Metalbestos Chimney Systems pipe, at least 18 inches long, in this support. See Fig. 1.



NOTE: SIZES 12" AND 14" HAVE SQUARE UPPER BUCKET
FIG. 1. CEILING SUPPORT

Follow these steps to install:

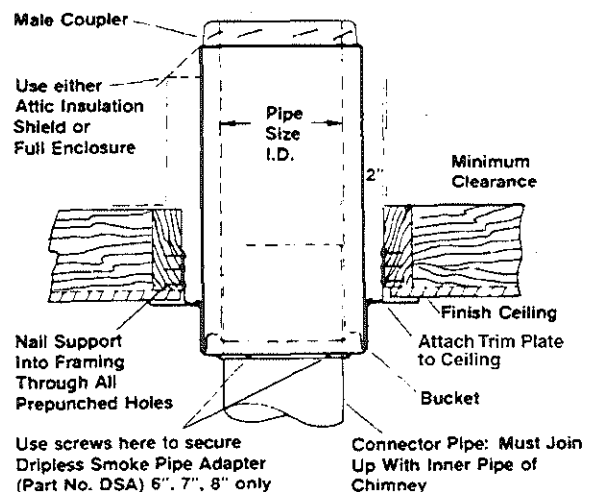
1. Frame a level square opening (all four sides), such that the inside dimensions are 6-1/4" larger than the diameter (ID) of pipe being installed. For example if a 6" Metalbestos Chimney is being installed, the framing dimensions should be 12-1/4" x 12-1/4".

Note: The support must be **underneath** either the framed opening or the finished ceiling. **DO NOT INSTALL SUPPORT ABOVE THE FRAMING**. See Fig. 2

2. Install finish ceiling material. Cut a circular opening the same diameter as the framing dimension (or square) through the ceiling inside the framed opening, making it large enough to accept the support. (With an existing ceiling, the opening should be framed after cutting the hole.)
3. Place the support assembly up against the ceiling opening from below.

IMPORTANT

Chimney Sizes 5", 6", 7" and 8" are Type HT.



CAUTION: Supports Must Be Installed From Below Framing As Shown Here

FIG. 2. INSTALLATION OF CEILING SUPPORT

4. Put one 8 penny common nail part way into each of the four nailing areas of the assembly and check that the plate is level and flush to the ceiling.
5. Finish nailing with 8 penny nails through all prepunched holes.
6. Attach trim plate to ceiling or to framing at corners.

ATTACH CONNECTORS SECURELY AND OBSERVE CLEARANCE TO COMBUSTIBLE MATERIAL

The connector or smoke pipe is the sheet metal pipe between the appliance and the chimney. Different types of fuels and appliances have different connector clearances to combustible walls and ceilings. These clearances will be shown in the appliance instructions.

Whatever clearances and connector arrangements are shown in the appliance instructions, they must be followed rather than the arbitrary 18 inch dimension. This is important if tests have shown that more than 18 inches clearance is necessary, or if the location of the stove or heater necessitates more clearance. See Fig. 3.

Combustible materials include such things as framing lumber, plywood, drywall (sheet rock, plaster board, lath and plaster, gypsum board) and also furniture and curtains. Building insulation of any kind including batts, foams, boards and especially loose fill cellulose fiber, must also be kept away from the chimney in the same manner as combustible materials.