DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING PERMIT

This is to certify that **BURMEISTER, PARKE A &PARKE A & BURMEISTER**

Located At **103 EDWARDS**

CBL: **120 - - D - 002 - 001 - - - - -**

Job ID: **2011-06-1578-HVAC**

has permission to install wood stove

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.	A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

Closed
7-22-11
DaM

City of Portland, Maine - Building or Use Permit Application

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

Job No:	Date Applied:	CBL:	
2011-06-1578-HVAC	**6/28/2011**	**120 - - D - 002 - 001 - - - - -**	
Location of Construction: **103 EDWARDS ST**	Owner Name: **EVEARAD STELFOX**	Owner Address: **103 EDWARDS ST PORTLAND, ME 04102**	Phone: 207-541-3741
Business Name:	Contractor Name: OWNER	Contractor Address:	Phone:
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: **R-3**
Past Use: Single family	Proposed Use: Single family- install wood stove	Cost of Work: **1000.00**	CEO District:
		Fire Dept: ___ Approved ___ Denied ___ N/A Signature:	Inspection: Use Group: Type: Signature:
Proposed Project Description: **install wood stove**		Pedestrian Activities District (P.A.D.)	
Permit Taken By:		**Zoning Approval**	

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building Permits do not include plumbing, septic or electrial work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.

Special Zone or Reviews	Zoning Appeal	Historic Preservation
___ Shoreland	___ Variance	✓ Not in Dist or Landmark
___ Wetlands	___ Miscellaneous	___ Does not Require Review
___ Flood Zone	___ Conditional Use	___ Requires Review
___ Subdivision	___ Interpretation	___ Approved
___ Site Plan	___ Approved	___ Approved w/Conditions
___ Maj ___ Min ___ MM	___ Denied	___ Denied
Date: OK 7/5/11	Date:	Date:

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 appication 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 PHON

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

1. Final Inspection required upon completion of work.

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCU0PIED.

PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-06-1578-HVAC **Located At: 103 EDWARDS** **CBL: 120 - - D - 002 - 001 - - - - -**

Conditions of Approval:

Building

1. This appliance/stove shall be installed, operated and maintained per the manufacturers specifications.

R-3

FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

P/S ✓

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 103 EDWARDS ST., PORTLAND, ME 120-D-2 Use of Building RESIDENTIAL Date 6-27-2011

Name and address of owner of appliance EVEARAD STELFOX, 103 EDWARDS ST. PORTLAND, ME 04102

Installer's name and address (OWNER INSTALLED)

Telephone 541-3741

Location of appliance:

- ☐ Basement
- ☒ Floor
- ☐ Attic
- ☐ Roof

Type of Fuel:

- ☐ Gas
- ☐ Oil
- ☒ Solid WOOD

Appliance Name: TRANQUILITY WOOD STOVE

U.L. Approved ☒ Yes ☐ No

Will appliance be installed in accordance with the manufacture's installation instructions? ☒ Yes ☐ No

IF NO Explain:

The Type of License of Installer:

- ☐ Master Plumber #
- ☐ Solid Fuel #
- ☐ Oil #
- ☐ Gas #
- ☒ Other OWNER

Type of Chimney:

- ☒ Masonry Lined
  Factory built
- ☐ Metal
  Factory Built U.L. Listing #
- ☐ Direct Vent
  Type UL#

Type of Fuel Tank

- ☐ Oil
- ☐ Gas

RECEIVED
JUN 28 2011
Dept. of Building Inspections
City of Portland Maine

Size of Tank

Number of Tanks

Distance from Tank to Center of Flame feet.

Cost of Work: $ 200.00

Permit Fee: $ 30

Approved

Fire:

Ele.:

Bldg.:

Approved with Conditions

☐ See attached letter or requirement

Inspector's Signature Date Approved

Signature of Installer Everard Stelfox

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT
HEATING OR POWER EQUIPMENT

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

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Name and address of owner of appliance EVERARD STELFOX, 103 EDWARDS ST. PORTLAND, ME 04102

Installer's name and address (OWNER INSTALLED)

Telephone 541-3741

Location of appliance:

- ☐ Basement
- ☑ Floor
- ☐ Attic
- ☐ Roof

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  Factory built
- ☐ Metal
  Factory Built U.L. Listing #
- ☐ Direct Vent
  Type UL#

Type of Fuel Tank

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Size of Tank

Number of Tanks

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Approved with Conditions

☐ See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Everard Stelfox

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

EVEARAD STELFOV, 103 EDWARDS ST., PORTLAND, ME 04102
541-3741

15'6"

13'6"

CERAMIC TILE FLOOR

DOOR

BRICK WALL
FLOOR TO CEILING (8')

WOOD STOVE

DOOR

8"

6'5"

CLAY FLUE TILE
8"X8"

CHIMNEY

Paid In Full
CK # 1461

120-D-2

INVOICE NO.

INVOICE

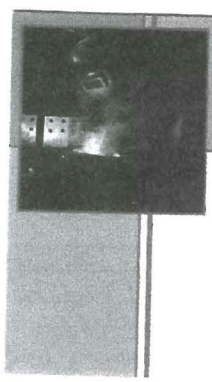
SOLD TO	SHIPPED TO	VIA
ED		
ADDRESS 103 E Dwards St	ADDRESS	
CITY, STATE, ZIP Portland ME	CITY, STATE, ZIP	

CUSTOMER'S ORDER	SALESPERSON	TERMS	F.O.B.	DATE
541-3741				5/30/11

1	Stainless Steel Cap # Installed	
1	New mortar crown	
1	New 8x8 tile on top Refractory cemented together	
	# Chimney is in Good working order and tile lookes in Great Shape. Chimney is lined with Clay flue tile Size 8x8	Parts & Labor $200.00

RECEIVED
JUN 28 2011
Dept. of Building Inspections
City of Portland

adams
8740



Larrabee Fabrication

Dana Larrabee Jr.
Owner/Operator

P.O Box 704
Scarborough Me, 04070

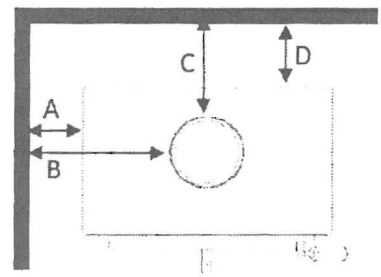
(207)730-3592

Larrabeefab@hotmail.com
Welding, Metal Fabrication, Chimney Service

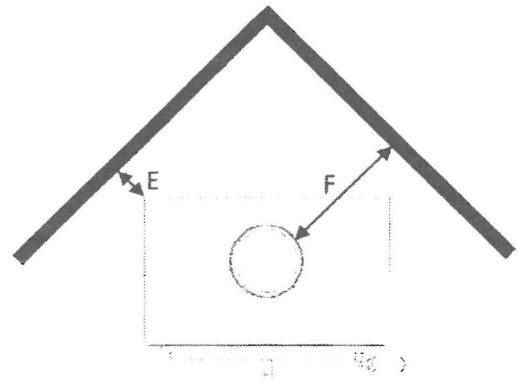
INSTALLATION

Clearances to Combustibles

Parallel Wall Installation



Corner Installation



	Unit to Side Wall	Chimney Connector to Side Wall	Chimney Connector to Rear Wall	Unit to Rear Wall	Unit to Corner	Chimney Connector to Corner
	A	B	C	D	E	F
	in. (mm.)	in. (mm.)	in. (mm.)	in. (mm.)	in. (mm.)	in. (mm.)
Single Wall Chimney Connector Unprotected Surface	12 (304.8)	19.5 (495.3)	12 (304.8)	10 (254.0)	7 (177.8)	15 (381.0)
Double Wall Chimney Connector Unprotected Surface	11 (279.4)	17.5 (444.5)	10 (254.0)	8 (203.2)	6 (152.4)	14 (355.6)

120 D2

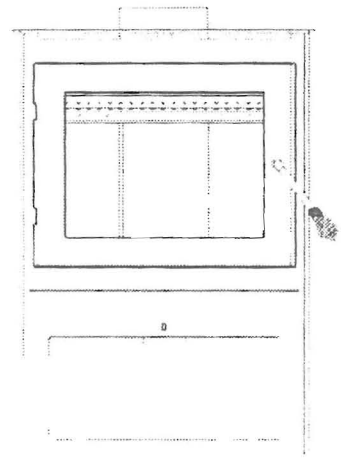
TRANQUILITY WOOD STOVE

RECEIVED

INSTALLATION & OPERATION MANUAL
17-VL, 50-SVL17 & 50-TVL17

Tested & Listed By O-TL Portland Oregon USA
OMNI-Test Laboratories, Inc

NFI NATIONAL FIREPLACE INSTITUTE



Manufactured By:
England's Stove Works, Inc.
PO Box 206
Monroe, VA 24574

REV. 12/2009

CAUTION

Please read this entire manual before installation and use of this wood fuel-burning appliance. Keep children, furniture, fixtures and all combustibles away from any heating appliance.

SAFETY NOTICE

Failure to follow these instructions can result in property damage, bodily injury or even death. For your safety and protection, follow the installation instructions outlined in this manual. Contact your local building or fire officials about restrictions and installation inspection requirements (including permits) in your area.

SAVE THESE INSTRUCTIONS

INSTALLATION

Venting Introduction

This wood stove operates on a natural draft system, in which the chimney system pulls air through the stove. This unit must be installed in accordance with the following detailed descriptions of venting techniques; not installing the stove in accordance with the details listed here can result in poor stove performance, property damage, bodily injury or death. Avoid make-shift compromises when installing the venting system. England's Stove Works is not responsible for any damage incurred due to a poor or unsafe installation.

Be certain that all aspects of the venting system are installed to the venting manufacturer's instructions, particularly the required clearances to combustibles. Also, be certain to use an attic radiation shield to prevent insulation from contacting a chimney which passes through an attic.

The chimney system is the "engine" which drives a wood stove, so it is imperative for proper unit function that the venting system be installed exactly as described in the following section.

If questions arise pertaining to the safe installation of the stove, our Technical Support line (800-245-6489) is available. Contact your local code official to be certain your installation meets local and national fire codes, and if you're uncertain about how to safely install the stove, we strongly recommend contacting a local NFI certified installer to perform the installation.

Venting Guidelines

- **ALWAYS** install vent pipe in strict adherence to the instructions and clearances included with your venting system.
- **DO NOT** connect this wood stove to a chimney flue which also serves another appliance.
- **DO NOT** install a flue pipe damper or any other restrictive device in the exhaust venting system of this unit.
- **USE** an approved wall thimble when passing through a wall and a ceiling support/fire stop when passing through a ceiling.
- **INSTALL** three sheet metal screws at every chimney connector joint.
- **AVOID** excessive horizontal runs and elbows, as both will reduce the draft of the venting system and will result in poor stove performance.
- **INSPECT** your venting system often, to be certain it is clear of creosote, fly-ash and other restrictions.
- **CLEAN** the venting system as detailed in the maintenance section of this manual.
- **ADHERE** to the 10-3-2 rule regarding chimney terminations.
- **INSTALL** single wall chimney connector with the male end **down** to prevent creosote leakage. Follow double wall chimney connector manufacturer's instructions regarding proper pipe installation.

WARNING: Venting system surfaces get HOT, and can cause burns if touched. Noncombustible shielding or guards may be required.

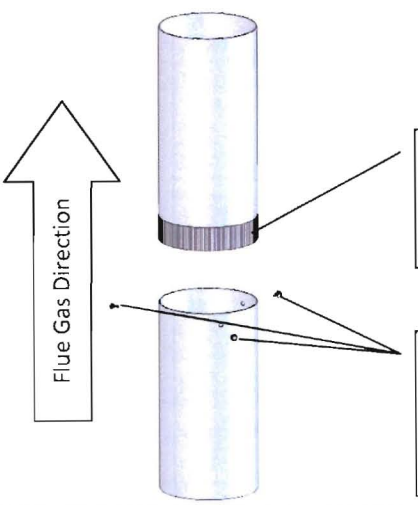
INSTALLATION

Additional Venting Information

- Do not mix and match components from different pipe manufacturers when assembling your venting system (i.e. Do **NOT** use venting pipe from one manufacturer and a thimble from another).
- We **require** a minimum chimney height of 15.0 ft. Chimney systems shorter than this may not create the amount of draft which is required to operate this wood burning unit.
- Do not use makeshift compromises when installing the venting system; have existing chimney systems inspected before use and be certain all new chimney systems are installed to the manufacturer's specifications and with only UL listed components.
- Prefabricated venting systems used for this stove must be listed to ULC S629 (Canada) and UL 103HT (US).
- Never install a draft inducer or any other system which increases the natural draft of the chimney; similarly, do not install a barometric or stovepipe damper with this unit.
- Never use single wall or double chimney connector as a chimney system; never pass either type of chimney connector through a combustible wall without carefully following the manufacturer's instructions and those listed in the following page on Wall Pass-Throughs. NEVER pass chimney connector through an attic, floor, closet or roof.
- Only use 24 gauge MSG black single wall chimney connector or UL Listed double wall chimney connector.

Single Wall Chimney Connector Installation

The male end of single wall chimney connector is installed facing down so that any liquid creosote in the flue will run into the unit instead of onto the outside of the pipe (the natural draft in the chimney system will prevent smoke leakage at the joints).



Crimped or male end of single wall chimney connector must face down.

Fasten each single wall chimney connector joint with three sheet metal screws.

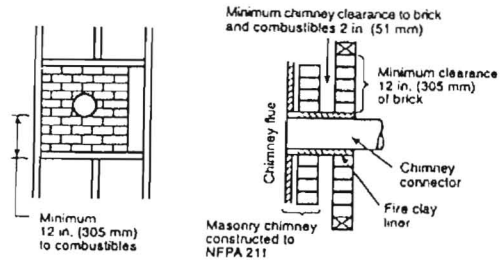
WARNING

- INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.
- HOT! Do not touch! Severe burns or clothing ignition may result.
- Glass and other surfaces are hot during operation.

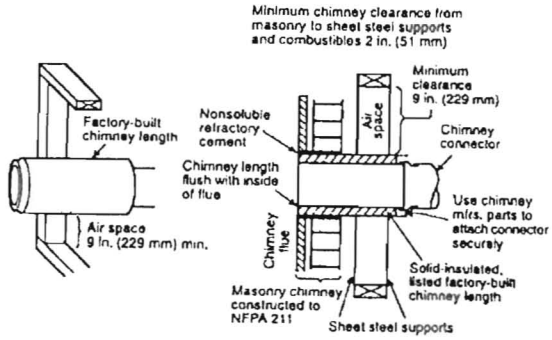
INSTALLATION

Wall Pass-Throughs

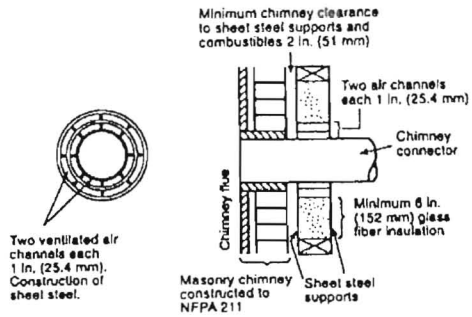
Chimney Connector Systems and Clearances from Combustible Walls for Residential Heating Appliances



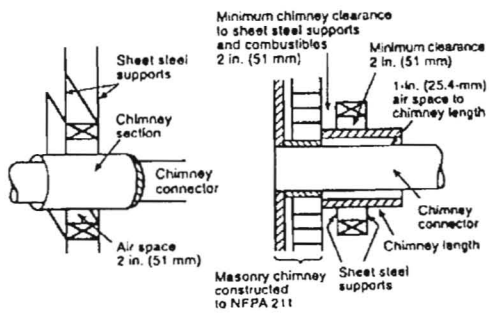
A Minimum 3.5-in thick brick masonry all framed into combustible wall with a minimum of 12-in brick separation from clay liner to combustibles. The fireclay liner shall run from outer surface of brick wall to, but not beyond, the inner surface of chimney flue liner and shall be firmly cemented in place.



B Solid-insulated, listed factory-built chimney length of the same inside diameter as the chimney connector and having 1-in. or more of insulation with a minimum 9-in. air space between the outer wall of the chimney length and combustibles.



C Sheet steel chimney connector, minimum 24 gauge in thickness, with a ventilated thimble, minimum 24 gauge in thickness, having two 1-in. air channels, separated from combustibles by a minimum of 6-in. of glass fiber insulation. Opening shall be covered, and thimble supported with a sheet steel support, minimum 24 gauge in thickness.

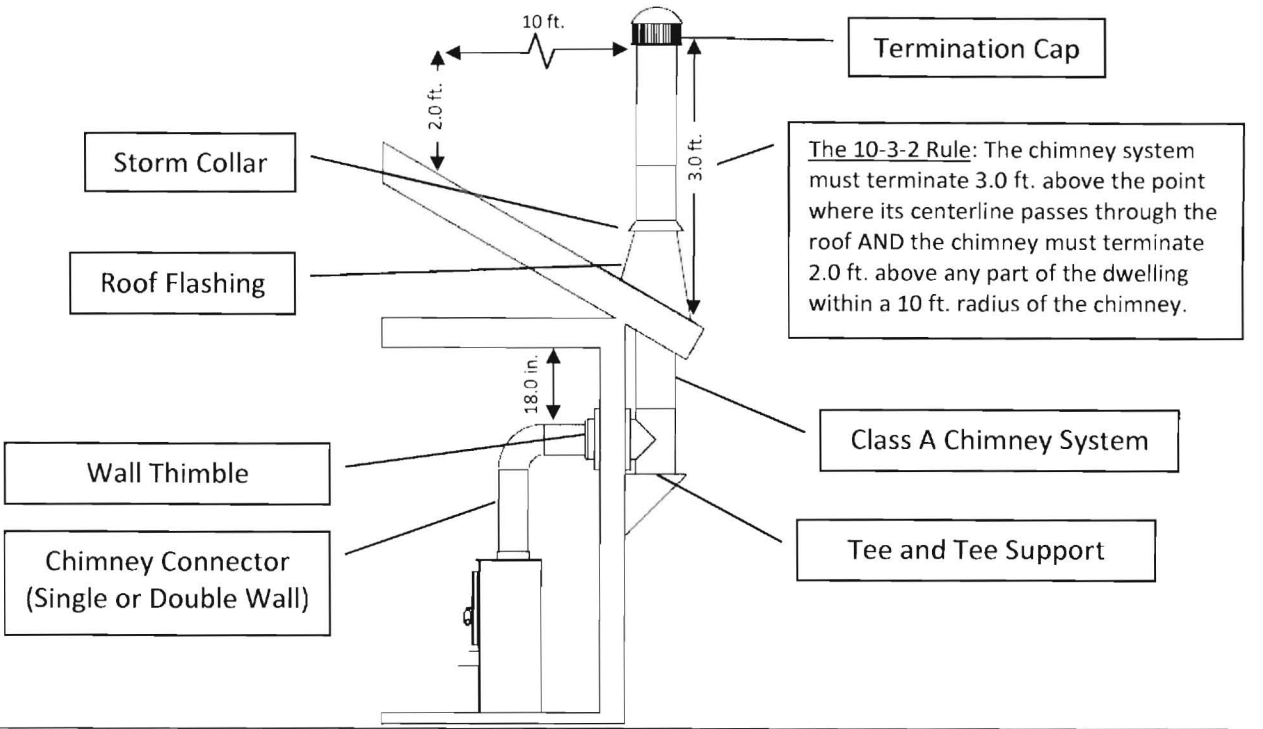


D Solid insulated, listed factory-built chimney length with an inside diameter 2-in. larger than the chimney connector and having 1-in. or more of insulation, serving as a pass-through for a single wall sheet steel chimney connector of minimum 24 gauge thickness, with a minimum 2-in. air space between the outer wall of chimney section and combustibles. Minimum length of chimney section shall be 12-in. chimney section spaced 1-in. away from connector using sheet steel support plates on both ends of chimney section. Opening shall be covered, and chimney section supported on both sides with sheet steel supports securely fastened to wall surfaces of minimum 24 gauge thickness. Fasteners used to secure chimney section shall not penetrate chimney flue liner.

In Canada, the installation must conform to CAN/CSA-B365 when passing through combustible construction.

INSTALLATION

Approved Venting Method 1: Through the Wall Factory Built Chimney

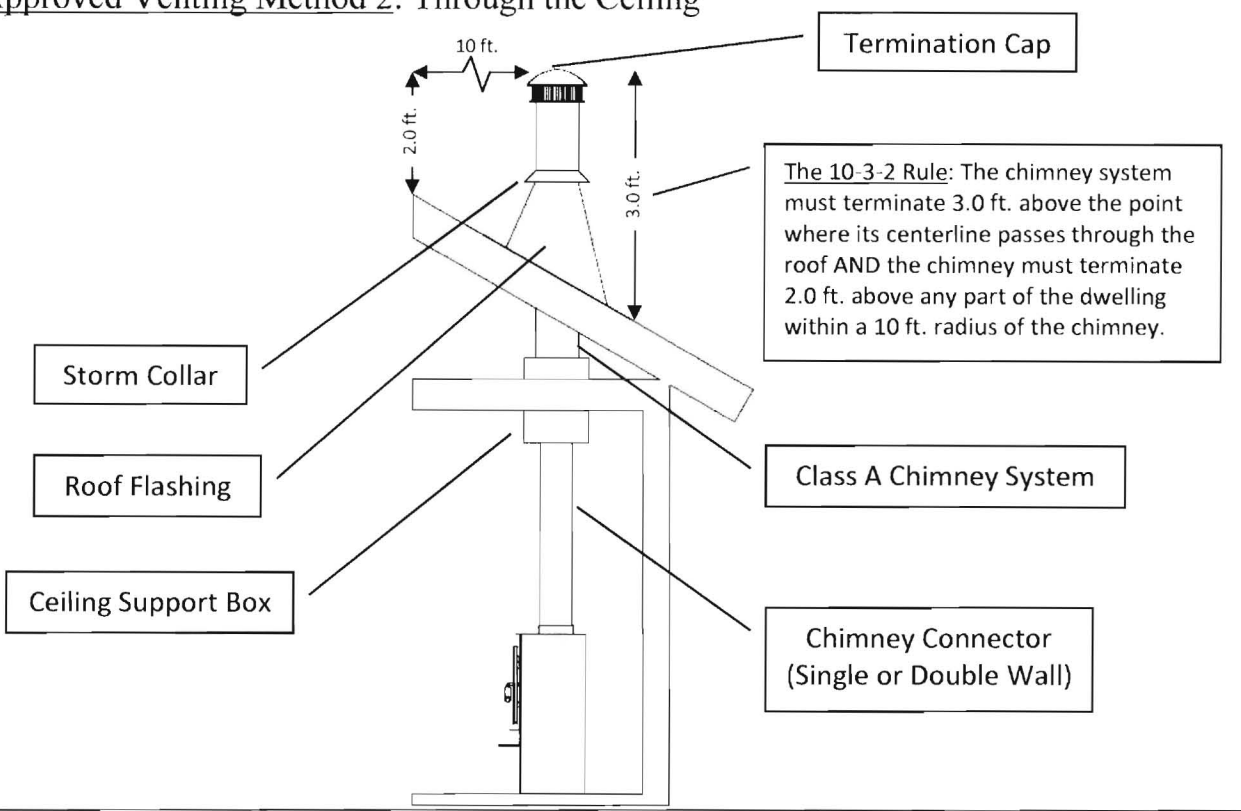


- Prefabricated chimney systems must conform to UL-103HT (2100 °F) for the U.S. and ULC-S629 (650°C) for Canada.
- This wood burning unit is only listed for installation with 6.0" diameter chimney connector and chimney systems. Installing this unit on prefabricated chimneys larger than 6.0" diameter will result in decreased draft and the potential for poor unit performance.
- Follow all venting system manufacturer's installation requirements and required clearances.
- Use three sheet metal screws at each single wall chimney connector joint (check manufacturer's recommendations when double wall chimney connector is used).
- Drill three holes in the flue collar of the unit and attach the chimney connector to the unit using sheet metal screws.
- Properly attach the prefabricated chimney system to the home in strict accordance with the prefabricated chimney system manufacturer's instructions.
- Avoid numerous elbows and excessive horizontal runs as both will lead to poor draft and increased creosote accumulation. Horizontal runs of chimney connector must never exceed 4.0 ft. and the overall length of the chimney connector must not exceed 8.0 ft.
- Special adapters and slip connectors are available to eliminate the need to cut single wall chimney connector. Double wall chimney connector must be used with these slip connectors, as it cannot be trimmed to length.

Please Note:
Installation diagrams are for reference purposes only and are not drawn to scale, nor meant to be used as plans for each individual installation. Please follow all venting system requirements, maintain the required clearances to combustibles, and follow all local codes.

INSTALLATION

Approved Venting Method 2: Through the Ceiling



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- This wood burning unit is only listed for installation with 6.0" diameter chimney connector and chimney systems. Installing this unit on prefabricated chimneys larger than 6.0" diameter will result in decreased draft and the potential for poor unit performance.
- Follow all venting system manufacturer's installation requirements and required clearances.
- Use three sheet metal screws at each single wall chimney connector joint (check manufacturer's recommendations when double wall chimney connector is used).
- Drill three holes in the flue collar of the unit and attach the chimney connector to the unit using sheet metal screws.
- Properly attach the prefabricated chimney system to the home in strict accordance with the prefabricated chimney system manufacturer's instructions.
- The overall length of the chimney connector must not exceed 8.0 ft. In the case of cathedral ceilings, the prefabricated chimney system should extend to 8.0 ft. from the top of the unit.
- Special adapters and slip connectors are available to eliminate the need to cut single wall chimney connector. Double wall chimney connector must be used with these slip connectors, as it cannot be trimmed to length.

Please Note:
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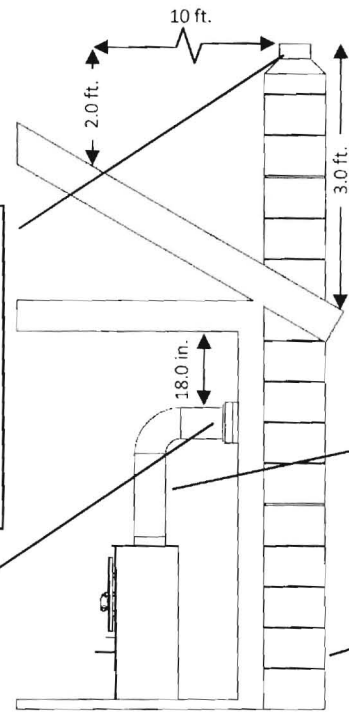
INSTALLATION

Approved Venting Method 3: Internal or External Masonry Chimney System



The 10-3-2 Rule: The chimney system must terminate 3.0 ft. above the point where its centerline passes through the roof AND the chimney must terminate 2.0 ft. above any part of the dwelling within a 10 ft. radius of the chimney.

Chimney liner cross-sectional area (Length x Width) must be no larger than twice the cross-sectional area of the flue collar (2 x 28.27 in^2 = 56.55 in^2). If chimney liner is larger than 56.55 in^2, relining with a 5.5" or 6.0" liner is required

Chimney Connector (Single or Double Wall)

Masonry Thimble with proper clearance to combustibles

Ash Cleanouts must have an airtight seal to prevent weak draft.

- Follow the rules listed above concerning maximum permissible flue liner size; installing this unit on masonry chimneys exceeding 56.55 in^2 in cross-sectional area will result in decreased draft and the potential for poor unit performance.
- Use three sheet metal screws at each single wall chimney connector joint (check manufacturer's recommendations when double wall chimney connector is used).
- Drill three holes in the flue collar of the unit and attach the chimney connector to the unit using sheet metal screws.
- Avoid numerous elbows and excessive horizontal runs as both will lead to poor draft and increased creosote accumulation. Horizontal runs of chimney connector must never exceed 4.0 ft. and the overall length of the chimney connector must not exceed 8.0 ft.
- A tight seal at the thimble is crucial for proper unit performance and to create a safe installation. Use the proper adapter designed for connecting single or double wall chimney connector to a masonry thimble.
- Have existing masonry chimneys inspected for safety and proper clearances to combustibles before putting them into service; a qualified chimney sweep can perform this inspection.
- External masonry chimneys often suffer cold downdrafts and poor draft performance even when they meet the cross-sectional area rules. In this case, a 6.0" insulated liner may be necessary.

Please Note:
Installation diagrams are for reference purposes only and are not drawn to scale, nor meant to be used as plans for each individual installation. Please follow all venting system requirements, maintain the required clearances to combustibles, and follow all local codes.

INSTALLATION

WARNING
DO NOT INSTALL IN A SLEEPING ROOM.

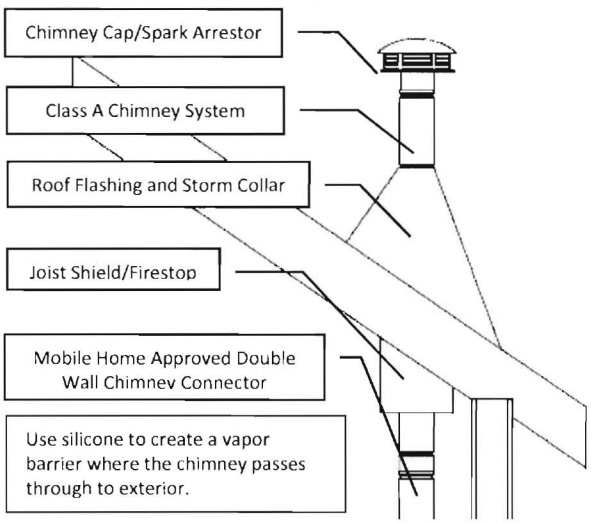
CAUTION

THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAINTAINED.

Caution
NEVER draw outside combustion air from:
Wall, floor or ceiling cavity or
enclosed space such as an attic, garage or crawl space.

Mobile Home Installation

- The wood stove **MUST** be secured to the floor of the mobile home using lag bolts and the holes provided in the bottom of the unit for this purpose.
- The wood stove must be connected to the chimney system with double wall chimney connector which is UL listed for use in mobile and manufactured homes.
- Carefully follow all clearances listed in the appropriate section of this manual AND follow the venting manufacturer's minimum clearance requirements. Similarly, be certain the venting system used is approved for mobile home use.
- Installation must be in accordance with Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24 as well as any applicable local codes.

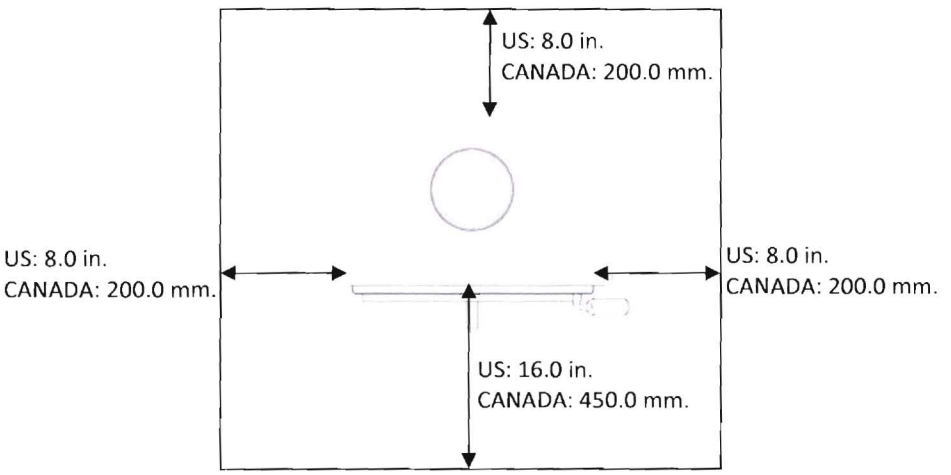


Outside Combustion Air

- The use of outside combustion air is **mandatory** when installing this wood stove in a mobile or manufactured home.
- The outside air connection pipe protrudes from the bottom center of the stove; a kit is available from England's Stove Works, Inc. designed for connecting this unit to outside combustion air. [Part No. AC-OAK5]
- If it is not feasible to use the AC-OAK5 outside air hookup kit in your stove installation, other materials may be used, provided the following rules are followed:
    - The pipe used for outside air hookup must be metal, with a minimum thickness of .0209in. (25 gauge mild steel) or greater and an inside diameter of approximately 4.25in.
    - Keep pipe runs short and use a mechanical fastener at each pipe joint.
    - A screen or other protection device must be fitted over the outside air termination point to prevent rain, debris and nuisance animals from entering the piping system. Inspect the outside combustion air inlet for block and debris monthly.

FLOOR PROTECTION

- This wood stove requires a non-combustible floor protector if the stove is to be installed on a combustible floor. If the floor the stove is to be installed on is already non-combustible (i.e. a concrete floor in a basement), no floor protection is needed (although a decorative floor protector can still be used for aesthetic reasons).
- When using any floor protector, consider that this stove is not only heavy but will induce heating and cooling cycles on the floor protector which can damage tile and loosen mortar and grout joints located near the stove.
- The floor protector should be UL approved or equivalent and must be noncombustible with an R value of 0.5. Since the majority of the heat from this unit is radiant, the floor protector not only serves to keep ashes and sparks from landing on combustible flooring near the unit but also protects the combustible floor from the heat of the unit. A hearth rug is NOT an approved substitute for a proper hearth pad.
- For the US: The floor protector must extend at least 16 in. from the front of the fuel opening, 8 in. from the sides of the door opening and 8 in. from the rear of the unit.
- For Canada: The floor protector must extend at least 450.0 mm from the front of the fuel opening, 200.0 mm from the sides of the door opening and 200.0 mm from the rear of the unit.



- The non-combustible floor protector must extend 2 in. (50.8 mm.) on either side of any horizontal venting runs and extend directly underneath any vertical venting pipe.
- Please see the following page for instructions on calculating R values, to be certain that the planned floor protection is adequate for this stove.

CAUTION

NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE. ADDITIONALLY, NEVER APPLY FIRE-STARTER TO ANY HOT SURFACE OR EMBERS IN THE STOVE.

FLOOR PROTECTION

R Value Calculation

An easy means of determining if a proposed alternate floor protector meets requirements is to follow this procedure:

1) Convert specification to R-value:
   - i R-value is given – no conversion is needed
   - ii k-factor is given with a required thickness (T) in inches: $R = 1/k \times T$
   - iii C-factor is given: $R = 1/C$
2) Determine the R-value of the proposed alternate floor protector:
   - i Use the correct formula given in step 1 (above) to convert values not expressed as "R."
   - ii For multiple layers, add R-values of each layer to determine overall R-value.
3) If the overall R-value of the system is greater than the R-value of the specified floor protector, the alternate is acceptable.

EXAMPLE:

The specified floor protector should be ¾" thick material with a k-factor of 0.84. The proposed alternate is 4" brick with a C-factor of 1.25 over 1/8" mineral board with a k-factor of 0.29.

Step (a): Use formula above to convert specification to R-value.
$R = 1/k \times T = 1/0.84 \times .75 = 0.893$

Step (b): Calculate R of proposed system.

4" brick of C = 1.25, therefore R brick = $1/C = 1/1.25 = 0.80$

1/8" mineral board of k = 0.29, therefore $R_{min.bd.} = 1/0.29 \times 0.125 = 0.431$

Total $R = R_{brick} + R_{mineral\ board} = 0.8 + 0.431 = 1.231$

Step (c): Compare proposed system of R of 1.231 to specified R of 0.893. Since proposed system R is greater than required, the system is acceptable.

Definitions:

Thermal conductance $= C = \dfrac{Btu}{(hr)(ft^2)(deg\ F)} = \dfrac{W}{(m^2)(deg\ K)}$

Thermal conductivity $= k = \dfrac{(Btu)(inch)}{(hr)(ft^2)(deg\ F)} = \dfrac{W}{(m)(deg\ K)} = \dfrac{Btu}{(hr)(ft)(deg\ F)}$

Thermal resistance $= R = \dfrac{(ft^2)(hr)(deg\ F)}{Btu} = \dfrac{(m^2)(deg\ K)}{W}$

STATE OF MAINE
CHIMNEY OR FIREPLACE CONSTRUCTION/INSTALLATION DISCLOSURE

Dear Consumer: State law, specifically 32 M.R.S.A. § 2313-A, requires that chimney or fireplace installers, as of January 1, 1992, provide you with this "Disclosure" prior to the installation or construction of your chimney or fireplace. The purpose of this Disclosure is to inform you that the National Fire Protection Standard #211 (NFPA #211) is the current standard which applies to all new construction of chimneys and fireplaces. Please note that the State of Maine does not require registration or licensure of chimney or fireplace installers. It is important to realize that many fires are caused each year from improperly constructed fireplaces and chimneys. This disclosure form should help you in making an informed decision as to the abilities of the installer and under what requirements the installation must comply.

INSTALLER INFORMATION

Name of Installer: Dana Larrabee Jr	D/B/A: Larrabee Fabrication	
Name of Installer (if incorporated):	D/B/A:	
Legal Address: P.O. Box 704 Scarborough		
City: Scarborough	State: ME	Zip Code: 04070
County: Cumberland	Home Telephone: (207) 730 - 3592 Work Telephone: (207) 730 - 3592	
Years of experience doing fireplace or chimney installations: 4		

CONSUMER INFORMATION

Name of Consumer: EVEARAD STELFOX		
Mailing Address: 103 EDWARDS ST.		
City: PORTLAND	State: ME	Zip Code:
County: CUMBERLAND	Home Telephone: (207) 541 - 3741 Work Telephone: ( ) -	

Installer, please give a brief description of installation being offered: New tile on top of chimney with cap and mortar crown, inspected chimney in locks to be in Great shape with No visible cracks in tile

I 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 in Title 32, M.R.S.A., Chapter 33 and the Oil and Solid Fuel Board Rules.

Signature of Installer: [signature] Date: 7/20/2011

PORTLAND MAINE

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Director of Planning and Urban Development
Penny St. Louis
Inspections Division Director
Tammy Munson

July 22, 2011

Evearad Stelfox
103 Edwards St
Portland, Me 04102

To Whom It May Concern:

The work for permit 2011-06-1578-HVAC performed by Evearad Stelfox for the installation of a wood stove at 103 Edwards St has been installed in compliance with the approved plans.

The permit will be closed and no further inspections are required.

Sincerely,

Donald McPherson
Code Enforcement Officer

CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

6.27. 20 11

Received from Terrante Inc -

Location of Work 9 Hanover St

Cost of Construction $_____ Building Fee: 75.

Permit Fee $_____ Site Fee: HVAC 150

Certificate of Occupancy Fee: 75

Total: 295

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: 33-J-7

Check #:_____ **Total Collected $** 295

No work is to be started until permit issued.
Please keep original receipt for your records.

Taken by: JP

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

6-28 20 11

Received from E. Stellox

Location of Work 103 Edwards

Cost of Construction $_____ Building Fee:_____

Permit Fee $_____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 30

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other HVAC

CBL: 120 D-2

Check #:_____ **Total Collected $** 30

No work is to be started until permit issued.
Please keep original receipt for your records.

Taken by: _____

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

6-24- 20 11

Received from Heller Goldman

Location of Work 26 Brackett

Cost of Construction $_____ Building Fee:_____

Permit Fee $_____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: 58-L-11

Check #: CC **Total Collected $** 40

No work is to be started until permit issued.
Please keep original receipt for your records.

Taken by: _____

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy