

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 09-1446	Issue Date:	CBL: 016 E012001
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Location of Construction: 77 ST LAWRENCE ST	Owner Name: POIRIER MARK S & NOEL M PO	Owner Address: 179 PLEASANT AVE	Phone:
Business Name:	Contractor Name: P & P Plumbing & Heating	Contractor Address: 1039 Riverside Street Portland	Phone 2077973100
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone: R-6

Past Use: 2 Unit Condo	Proposed Use: 2 Unit Condo - install a H.B. Smith Boiler(s) in basement and 2 propane tanks w/ barrier protection for cooking appliances	Permit Fee: \$80.00	Cost of Work: \$5,200.00	CEO District: 1
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FIRE DEPT: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Denied <i>N/A</i> Signature:	INSPECTION: Use Group: R-3 Type: HVAC <i>HVAC</i> Signature:
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Proposed Project Description:
n stall a H.B. Smith Boiler(s) in basement and 2 propane tanks w/ barrier protection for cooking appliances

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input checked="" type="checkbox"/> Denied	Signature:	Date:

Permit Taken By: Ldobson	Date Applied For: 12/28/2009	Zoning Approval	
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. 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..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	<p>Zoning Appeal</p> <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	<p>Historic Preservation</p> <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
	<p>Date: <i>12/29/09</i></p>	<p>Date:</p>	<p>Date:</p>

PERMIT ISSUED

DEC 29 2009

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



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PERMIT ISSUED

DEC 29 2009

City of Portland

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 77 St. Lawrence St Use of Building Condo Date 12-24-09

Name and address of owner of appliance Mark S Porter

Installer's name and address PIP plumbing & heating 24 Cudde Lane Portland

Telephone 207-797-5100

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: H.B. Smith

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 # MS30013718
- Solid Fuel # _____
- Oil # _____
- Gas # _____
- Other _____

Type of Chimney:

- Masonry Lined
- Metal
- Direct Vent

Factory built _____

Factory Built Dep. Listing #

Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas

installed two propane tanks that supply cooktop stoves

Size of Tank 275 existing

Number of Tanks 2 - existing

Distance from Tank to Center of Flame over 5 feet.

Cost of Work: \$ 5200.00

Permit Fee: \$ 80.00

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer Stephen Perry

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

Smith

CAST IRON BOILERS

8 SERIES

STEAM OR HOT WATER BOILER-BURNER UNIT INSTALLATION & OPERATING INSTRUCTIONS



DESIGNED AND TESTED ACCORDING TO A.S.M.E. BOILER AND PRESSURE VESSEL CODE, SECTION IV FOR A MAXIMUM ALLOWABLE WORKING PRESSURE OF: 15 PSI STEAM OR 40 PSI WATER.

TO INSTALLER

NOTE: READ THESE INSTRUCTIONS CAREFULLY. THEY WILL SAVE YOU VALUABLE TIME WHEN ASSEMBLING THE BOILER.

THESE INSTRUCTIONS TO BE LEFT WITH THE BOILER FOR REFERENCE PURPOSES.

CAUTION: Do not use automotive anti-freeze in boiler waterways. If necessary to use anti-freeze, be sure to employ a preparation designed for hydronic heating systems such as ethylene or propylene glycol.

CONSUMER, RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE PURPOSES.

Smith
CAST IRON BOILERS

WESTCAST, INC.
260 NORTH ELM STREET
WESTFIELD, MA 01085
TEL. (413) 562-9631 FAX (413) 562-3799

7555 TRANMERE DRIVE
MISSISSAUGA, ONTARIO L5S 1L4
TEL. (905) 672-2991 FAX (905) 672-2883

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GENERAL

The 8 Series boiler-burner unit is a wet-base, vertical flue, low pressure, sectional, cast iron steam or hot water heating boiler. It is rated for natural draft firing with -0.02" W.C. over the fire draft. Boilers are available as either factory assembled in blocks from three to six sections in length with burner and controls supplied for field assembly or as a completely packaged boiler.

The ports between sections are provided with a special hydronic seal which is resistant to petroleum products. The flue gas seal between sections is accomplished by the use of fiberglass rope rated at 1000° F.

Both packaged units and assembled blocks of sections are hydrostatically tested for the maximum working pressures. The assembled blocks also include the special hydronic seals, the glass fiber rope joint seal, a precast fiber target wall, the insulated burner mounting plate and cleanout covers.

An insulated metal jacket is furnished to both enhance the units looks and to minimize any heat loss. A full access cleanout cover for cleaning vertical flue passages is on the left hand side of the boiler and is accessible by removing the left hand cleanout access jacket panel.

The Series 8 boiler is offered in 3 different configurations:
 1 - Packaged boiler with "burner in the box" shipped separately.
 2 - Packaged boiler with burner mounted and wired.
 3 - Assembled cast iron block with accessories loose.

IMPORTANT - Sufficient clearance between the left side of the boiler and adjacent construction must be provided to ensure proper access when cleaning is required!

CODES, RULES AND REGULATIONS

The installation of the boiler, the burner, wiring, controls and fuel piping must be done in accordance with the requirements of the local authorities having jurisdiction. In the absence of local requirements, the following codes apply:

- ANSI/NFPA31 - "Installation of Oil Burning Equipment"
- ANSI/NFPA70 - "National Electrical Code"

In Canada the following codes apply:
 CSA STD. B149 - Latest Edition.
 "Installation Code For Oil Burning Equipment."
 CSA STD. C22.2 No. 0 - Latest Edition.
 "General Requirements - Canadian Electrical Code Part II."

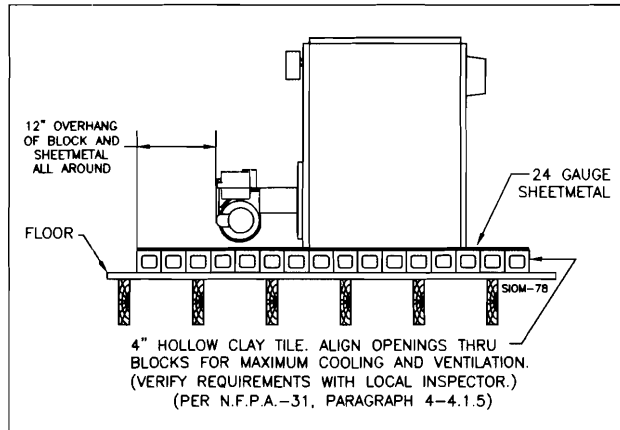
All completed boilers shall satisfactorily pass the hydrostatic tests as prescribed by A.S.M.E., Code Section IV.

1. Steam Boilers – The assembled boiler shall be subjected to a hydrostatic test of not less than 45 psig.
2. Water Boilers – The assembled boiler shall be subjected to a hydrostatic test pressure of 60 psig.
3. The required test shall not exceed the test pressure by more than 10 psig.

BOILER LOCATION

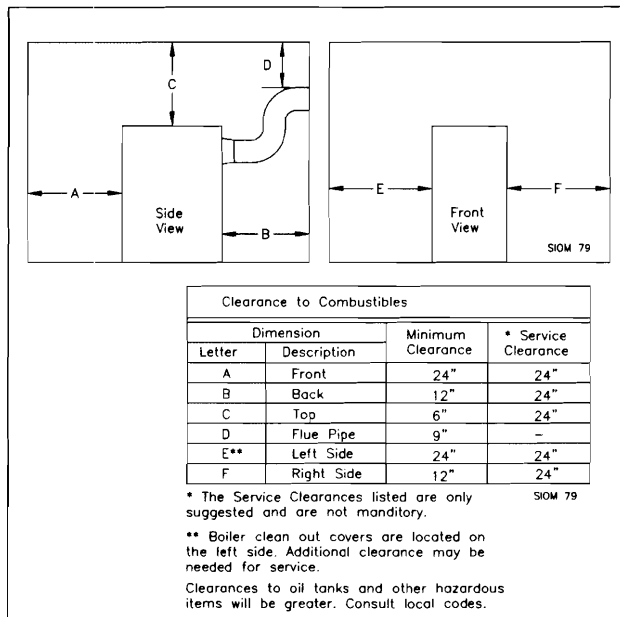
Boiler should be located on a smooth level concrete floor or pad close to the chimney to minimize breeching length. Allow access for boiler cleaning and burner maintenance.

Figure 1A



CAUTION - Boiler shall be installed on non-combustible floor only, unless Figure 1A is followed.

Figure 1B



CHIMNEY AND BREECHING

Attach the smoke hood to the back of the boiler using the 4 brass machine screws making sure to install the gasket between the smoke hood and boiler. (Gasket and hardware located in literature bag.) The 3 and 4 section models are equipped with a 6" smoke hood, the 5 and 6 section models with a 7" smoke hood. The boiler must be vented with vent pipe having the same diameter as the smoke hood collar. Place the flue pipe over the smoke hood collar and secure it to the collar with a sheet metal screw.

The flue pipe should be run to the chimney by the most direct route, with the minimum number of elbows and with a slight upward pitch. The pipe should terminate flush with the inside face of the chimney and should be sealed in place with insulating cement. The boiler must be vented to the outdoors by means of a tile lined masonry chimney.

For energy conservation, the boiler can be vented directly into a chimney without the use of a barometric draft control, unless required by code or in instances where the chimney can develop excessive draft. **Overfire** draft greater than -0.05 inches W.C., with the burner in operation, is excessive (normal draft is -0.02 to -0.04" W.C.).

COMBUSTION AND VENTILATION

Normal residential construction usually allows sufficient air infiltration for combustion. If construction is tight, consideration should be given for air louvers to the outside. Local codes or NFPA 31, "Installation of Oil Burning Equipment", should be referred to for proper sizing and design and air supply. In Canada refer to CSA STD. B149 - latest edition.

WARNING: This boiler must be connected to a properly sized and constructed chimney or vent system! Failure to comply with this warning can result in a fire which could cause extensive property damage, severe personal injury or death!

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Dept: Zoning	Status: Approved with Conditions	Reviewer: Marge Schmuckal	Approval Date: 12/29/2009
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) All the previous conditions are still in force.			
Dept: Building	Status: Approved	Reviewer: Residential Plan Revie	Approval Date:
Note:	Ok to Issue: <input type="checkbox"/>		