

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that STEPHEN BUGDEN

Located At 79 JORDAN ST

Job ID: 2012-10-5089-HVAC

CBL: 429-H-016-001

has permission to Install a Weil-McLain Boiler in basement

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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

## BUILDING PERMIT INSPECTION PROCEDURES

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

or email: [buildinginspections@portlandmaine.gov](mailto: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.**

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 OCCUPIED.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Jeff Levine

Job ID: 2012-10-5089-HVAC

Located At: 79 JORDAN ST

CBL: 429- H-016-001

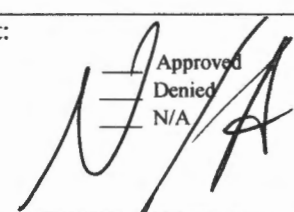
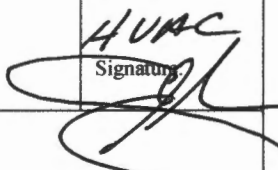
## **Conditions of Approval:**

### **Building**

Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.

# City of Portland, Maine - Building or Use Permit Application

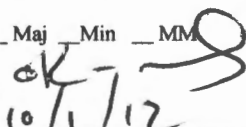
389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2012-10-5089-HVAC	Date Applied: 10/1/2012	CBL: 429- H-016-001	
Location of Construction: 79 JORDAN ST	Owner Name: STEPHEN BUGDEN	Owner Address: 79 JORDAN ST PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: Caron & Waltz	Contractor Address: 321 LINCOLN ST SOUTH PORTLAND MAINE 04106	Phone: 799-2228
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-5
Past Use:  Two Family Dwelling	Proposed Use:  Same: Two Family Dwelling – to install Weil-McLain STG03 heating system	Cost of Work: \$7,000.00	CEO District:
		Fire Dept:  Approved Denied N/A  Signature: 	Inspection: Use Group: R-3 Type: SB HVAC Signature: 
Proposed Project Description: Install a Weil-McLain Boiler in basement		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		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 electrical 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

- ☐ Shoreland  
☐ Wetlands  
☐ Flood Zone  
☐ Subdivision  
☐ Site Plan

Date:   
 10/1/12

## Zoning Appeal

- ☐ Variance  
☐ Miscellaneous  
☐ Conditional Use  
☐ Interpretation  
☐ Approved  
☐ Denied

Date:

## Historic Preservation

- ☒ Not in Dist or Landmark  
☐ Does not Require Review  
☐ Requires Review  
☐ Approved  
☐ Approved w/Conditions  
☐ Denied

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

PHONE



FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

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 81 JORDAN STREET Use of Building WAL 2 FAM RES DENCE Date 9/27/12  
 Name and address of owner of appliance STEVE BARDEN  
81 JORDAN STREET, PORTLAND, ME 04103  
 Installer's name and address CAROL WATZ  
321 LINCOLN ST, PORTLAND, ME 04106 Telephone 799-2228

## Location of appliance:

- ☒ Basement ☐ Floor  
☐ Attic ☐ Roof

## Type of Fuel:

- ☒ Gas ☐ Oil ☐ Solid

Appliance Name: WEIL-MCLAIN STG03U.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 # PNT1619  
☐ Other \_\_\_\_\_

## Type of Chimney:

- ☒ Masonry Lined  
 Factory built \_\_\_\_\_

- ☐ Metal

Factory Built U.L. Listing # \_\_\_\_\_

- ☐ Direct Vent

Type \_\_\_\_\_ U.L. # \_\_\_\_\_

## Type of Fuel Tank

- ☐ Oil  
☐ Gas

NO TANKSize of Tank NANumber of Tanks NADistance from Tank to Center of Flame NA feetCost of Work: \$ 6,785.00Permit Fee: \$ 90

RECEIVED  
 OCT 01 2012  
 Dept. of Building Inspections  
 City of Portland Maine

## Approved

Fire: \_\_\_\_\_

Ele.: \_\_\_\_\_

Bldg.: \_\_\_\_\_

Signature of Installer [Signature]

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

## Approved with Conditions

- ☐ See attached letter or requirement

Inspector's Signature \_\_\_\_\_

Date Approved \_\_\_\_\_
































































































































































































































































































































**SERVICE TECHNICIAN ONLY — read and follow completely.**

## Connect breeching

### General chimney requirements

- Designed for natural draft firing. Connect boiler to vertical chimney.
- Insufficient draft can cause flue gas leakage and carbon monoxide emissions, which will lead to severe personal injury or death.
- Use vent material approved by local codes for oil-fired burners. In their absence, refer to:
  - NFPA 31, Installation of Oil-Burning Equipment.
  - NFPA 211, Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances.
  - In Canada, refer to CSA B139, Installation Code for Oil-Burning Equipment.
- NFPA 211 requires chimney to be lined before connected to boiler.
- Inspect existing chimney before installing new boiler. Failure to do any of the following will result in severe personal injury or death:
  - Clean chimney, including removal of blockage.
  - Repair or replace damaged pipe or liner.
  - Repair mortar and joints.
- To prevent downdrafts, extend chimney at least 3 feet above highest point where it passes through roof and 2 feet higher than any portion of building within 10 feet. Increase chimney cross-sectional area and height at least 4% per 1,000 feet above sea level.
- Minimum clearances from vent pipe to combustible material:
  - 6 inches — Type “L” double-wall vent
  - 9 inches — Single-wall vent
- Minimum chimney sizes should be used.

**NOTICE**

Oversized chimneys, outside masonry chimneys and/or derated inputs can result in condensation in chimney.

### Connect breeching:

**WARNING**

Long horizontal breechings, excessive number of tees and elbows or other obstructions restricting combustion gas flow can result in possibility of condensation, flue gas leakage and carbon monoxide emissions, which can lead to severe personal injury or death.

1. Install 2 flue pipe brackets.
2. Connect full-sized breeching when possible. See Minimum Chimney Size Table.
  - Back outlet — see Figure 7, page 17.
  - Top outlet — see Figure 8, page 17.
3. Connection must be made above bottom of chimney to avoid blockage. Breeching must not enter chimney far enough to cause obstruction. Use thimble or slip joint where breeching enters chimney to allow removal for cleaning.

**Table 3** Minimum chimney sizes

Boiler model number	Minimum breeching diameter (note 3)	Minimum l=B×R chlmney size		Minimum chimney height
		Rect.	Round	
WGO-2	5"	8" x 8" (note 1)	6"	15'
WGO-3				
WGO-4	6"	8" x 8" (note 1)	7"	15'
WGO-5	6"			
WGO-6	7"			
WGO-7				
WGO-8	7"	8" x 12" (note 2)	7"	20'
WGO-9				
Note 1	6¾" x 6¾" inside liner			
Note 2	6½" x 10½" inside liner			
Note 3	Flue collar on boiler is 7" diameter			

4. When burner and boiler are properly installed, draft overfire will be approximately -0.01" to -0.02" W.C. Install barometric control in breeching, per control manufacturer's instructions, when excess draft needs to be relieved or to comply with applicable codes and regulations. Use draft gauge to adjust proper opening.
5. An induced draft fan for the chimney may be necessary if:
  - Excessive resistance to flow of combustion gases can be expected.
  - Cross-sectional area of chimney is smaller than minimum recommended.
  - Chimney height is less than recommended.

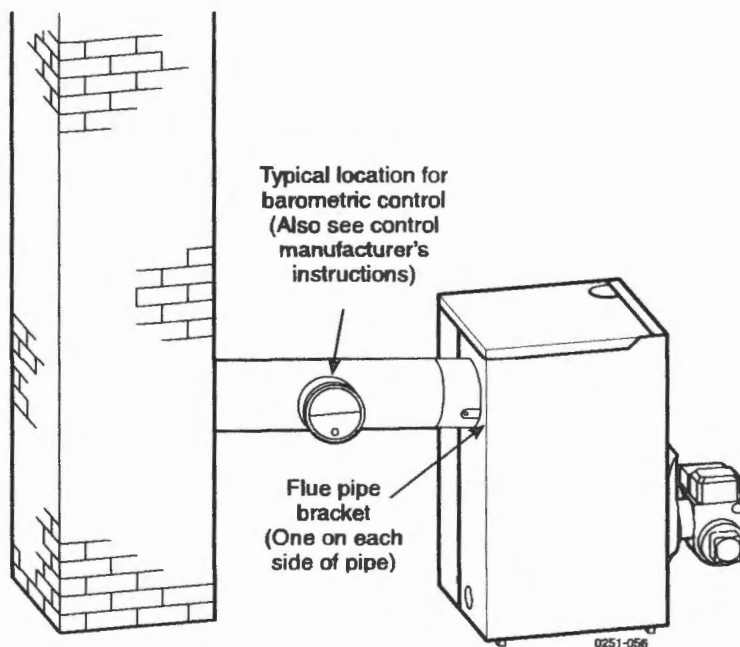
**WARNING**

Seal all vent joints. Interlock burner with fan operation.

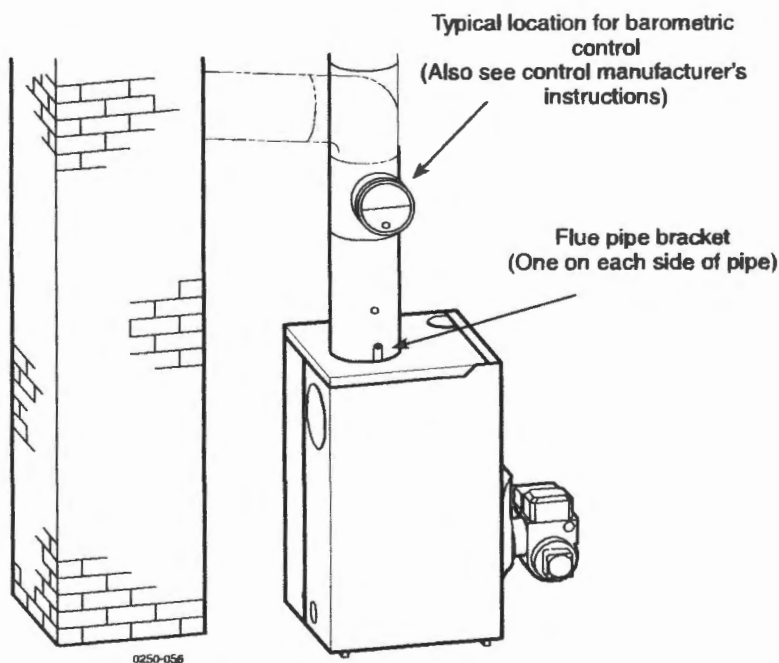
**SERVICE TECHNICIAN ONLY — read and follow completely.**

## Connect breeching *(continued)*

**Figure 7** Back outlet breeching connection



**Figure 8** Top outlet breeching connection





**SERVICE TECHNICIAN ONLY** — read and follow completely.

## Before installing boiler



**Homeowner — STOP!** The procedures and information on this and following pages are intended only for a qualified service technician who has the necessary equipment to inspect and adjust boiler and burner. A homeowner should never attempt these procedures. The service technician must also read pages 1 through 7 before proceeding.

### Installations must comply with

- United States
  - State and local plumbing, heating and electrical codes.
  - National codes where applicable.
- Canada
  - Canadian Standards Association, CSA B139, Installation Code for Oil-Burning Equipment.
  - CSA C22.1 Canadian Electrical Code Part One.
  - Applicable local or provincial codes.

### Before selecting boiler location

Check for nearby connections to:

- System water piping.
- Chimney. See page 16. Boiler can be top or back vented.
- Combustion and ventilation air supply. See page 9.
- Oil supply. See page 26 for oil line routing.
- Electrical power.
- Check area around boiler. Remove any combustible materials, gasoline and other flammable liquids.



Failure to keep boiler area clear and free of combustible materials, gasoline and other flammable liquids and vapors can result in severe personal injury, death or substantial property damage.

### Provide clearances around boiler (see Figure 2)

#### NOTICE

Jacket cap must be in place on boiler to avoid requiring an 9" minimum clearance from back or top of boiler to combustible material.

- MINIMUM clearances from vent pipe to combustible material
  - 6 inches — Type "L" double-wall vent\*
  - 9 inches — Single-wall vent\*

#### NOTICE

Flue pipe clearances must take precedence over jacket clearances.

- Recommended SERVICE clearances
  - 24 inches — Front and top
  - 6 inches — Left side, back and right side
  - 12 inches — Right side for burner door swing radius
- Special close clearances (alcove, closet, under counters, etc.) — see Appendix, page 32.

**Figure 2** Recommended service clearances

