

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that » David Etnier

Located At 22 DEERING

Job ID: 2011-08-2070-HVAC

CBL: 046 - - C - 005 - 001 - - - -

has permission to Install new heating system in basement

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

[Handwritten signature and date 9/6/11]

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**



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: 2011-08-2070-HVAC

Located At: 22 DEERING

CBL: 046 - - C - 005 - 001 - - - - -

Conditions of Approval:

Fire

Installation shall comply with City Code Chapter 10.

Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.

Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;

NFPA 31, *Standard for the Installation of Oil-Burning Equipment*;

NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;

NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-08-2070-HVAC	Date Applied: 8/24/2011	CBL: 046 - - C - 005 - 001 - - - - -	
Location of Construction: 22 DEERING ST	Owner Name: David Etnier	Owner Address: PO BOX 11199 PORTLAND, ME - MAINE 04104	Phone:
Business Name:	Contractor Name: Christopher A Sweatt	Contractor Address: 73 Pleasant Hill RD SCARBOROUGH MAINE 04074	Phone: (207) 883-9515
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-6
Past Use: Three residential dwelling units	Proposed Use: Same: Three residential dwelling units - to install new heating system in basement	Cost of Work: \$8000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: HVAC Type: HVAC
		Signature: <i>Capt. Perrone 8/29/11</i>	Signature: <i>[Signature]</i>
Proposed Project Description: Buderus Boiler for entire building in Basement		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Lannie	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 informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>— Maj — Min — MM</p> <p>Date: <i>08/25/11</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation <i>w/m</i></p> <p><input type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>my exterior work requires A separate review's approval</i></p>
	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
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RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE	DATE	PHON
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FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



X4^{1/3}
R-6

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 46-C-5 for units 1, 2, 3 Use of Building Apt bldg Date 8/24/11

Name and address of owner of appliance David Etner 22 Deering St

Installer's name and address Christopher Surratt Dead River Co 73 Pleasant Hill Rd Scarborough, ME Telephone 883-9515

Location of appliance:

Basement Floor
 Attic Roof

Type of Fuel:

Gas Oil Solid

Appliance Name: _____

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 # MS 20064350
 Gas # _____
 Other _____

Type of Chimney:

Masonry Lined
Factory built _____

Metal
Factory Built U.L. Listing # _____

Direct Vent
Type _____ UL# _____

Type of Fuel Tank

Oil
 Gas

Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame 20 feet.

Cost of Work: \$ 7,103.00

Permit Fee: \$ 100

11.4.13

RECEIVED
AUG 24 2011
Dept of Building Inspections
City of Portland Maine

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

Delivering on A promise.



SALES PROPOSAL 2201007

PROPOSAL SUBMITTED TO: Dave Etnier	ACCOUNT NUMBER N/A	PROPOSED BY: Bill Heisel
STREET 260 Basin Point Road	PHONE NUMBER 207-833-2378	JOB PHONE SAME
CITY, STATE, AND ZIP CODE Harpwell, ME 04079	JOB LOCATION SAME	

WE HEREBY SUBMIT SPECIFICATIONS AND ESTIMATES FOR:
THE INSTALLATION OF A BUDERUS 215-4 CAST IRON BOILER WITH A RIELLO BURNER AND ANEW 275 GALLON FUEL TANK WITH FILL AND VENT PIPING TO THE OUTSIDE.

INCLUDED IN THIS PROPOSAL AND TO BE PERFORMED BY DEAD RIVER COMPANY:

- All black iron and copper piping, valves, fittings and all required operating and safety controls.
- New flue pipe into the chimney.
- Fuel line and/or connections as needed.
- All necessary electrical work to update the system to current local and state codes.
- Complete system start-up.
- Removal and disposal of the old boiler and oil tank.

NOT INCLUDED IN THIS PROPOSAL AND TO BE PERFORMED BY OTHERS:

- Chimney lining if required.

DEAD RIVER CO. WARRANTEES THIS INSTALLATION FOR 1 YEAR, PARTS AND LABOR.

THE CREDIT MANAGER'S APPROVAL.
TERMS - COMPLETE IN ACCORDANCE WITH THE ABOVE SPECIFICATIONS :
ONE HUNDRED SIXTY THREE DOLLARS AND 00/100

PAYM Dave will get back to me to let me

ACT PRICE: \$ 7,163.00
PAYMENT: \$ 2,387.00 (1/3 OF CONTRACT PRICE)
ANCE DUE: \$ 4,776.00 (UPON COMPLETION)

AL knew usage so we can come up with a ppg and see if he wants Deliveries from us. Sheri

DATE: 2/25/11
IN A WORKMANLIKE MANNER ACCORDING TO STANDARD PRACTICE. ANY ALTERATION FROM WRITTEN ORDERS, AND WILL BECOME AN EXTRA CHARGE OVER AND ABOVE THE ESTIMATE. ALL CONTROL. OWNER TO CARRY FIRE, TORNADO AND OTHER NECESSARY INSURANCE. OUR WORKERS ARE Y CAN NOT REMOVE ASBESTOS, IF ASBESTOS IS PRESENT A CERTIFIED ABATEMENT COMPANY WILL

THE OTHER SIDE) ARE SATISFACTORY AND WE HEREBY ACCEPTED YOU ARE AUTHORIZED TO DO THE WORK SPECIFIED. PAYMENT WILL BE MADE AS OUTLINED ABOVE.

NOTES: THIS PROPOSAL MAY BE WITHDRAWN BY DEAD RIVER COMPANY IF NOT ACCEPTED WITHIN 30 DAYS.

DATE OF ACCEPTANCE: 3/7/2011

SIGNATURE: [Signature]
SIGNATURE:

Installation and maintenance instructions

Oil and gas-fired boilers
Logano G215 US



Buderus

Please read carefully prior to installation and maintenance

6 Placing the Boiler

This chapter details how to install and place the boiler in the boiler room.



SYSTEM DAMAGE

due to freezing temperatures.

- Install the boiler in a frost-free room.

6.1 Clearances

Position the boiler at the recommended clearances (→ Fig. 3). Reducing the minimum clearances makes the boiler more difficult to access.

The boiler base or foundation must be perfectly flat and level.

The burner door can be fitted with the hinge on the l.h. or the r.h. side.

A	Recommended	51 1/8"
	minimum	39 3/8"
B	Recommended	27 1/2"
	minimum	15 3/4"
C	Recommended	15 3/4"
	minimum	3 7/8"
L _K	see "Technical Data" chapter	

Tab. 11 Recommended and minimum clearances (in Inches)

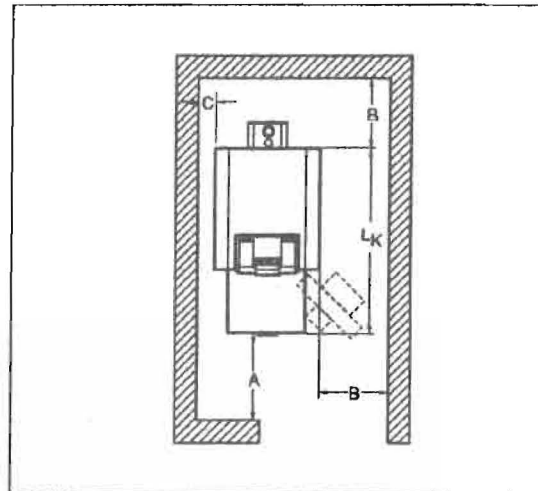


Fig. 3 Boiler room clearances (see Tab. 11)



NOTICE

Reduced clearances must comply with local and state codes. The boilers are designed for a side clearance of 6". Make sure that there is a sufficient clearance between combustible materials and the chimney connection as specified by NFPA 31 (distance of 18").



NOTICE

Where applicable, allow extra wall clearances for additional components, for example hot water tank, pipe connections, flue gas muffler or other components on the flue gas side.

8 Boiler installation

This chapter details how to install your boiler correctly. These details include:

- Flue connection
- Water connections
- Electrical connection
- Burner installation (field installation)
- Fuel connection

8.1 Flue connection

8.1.1 Chimney venting

Connect boiler to vertical chimney with a 6" vent pipe. Use only venting systems that comply with local codes and regulations. If local codes are not available, refer to the following regulations:

- NFPA 31, Installation of Oil-Burning Equipment,
- NFPA 211, Standard for Chimneys, Fire Places 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 connecting boiler.

Inspecting and cleaning existing flue

Inspect and clean the old flue before installation of the new boiler.

- Remove blockages and dirt from the chimney.
- Clean chimney
- Repair or replace faulty flues.
- If necessary, repair chimney with mortar and joints.

Down drafts



NOTICE

To prevent down drafts extend chimney at least 3 feet above the roof opening at least 2 feet above any part of the roof within a radius of 10 feet.

Minimum clearances to combustible objects

Wall Type	Clearance	Minimum
Double-wall	L	6"
Single-wall	L	18"

Tab. 13 Minimum clearances to combustible objects for flue systems

Minimum size of chimney

The minimum recommended chimney size is 8" x 8" (8 3/4" x 8 3/4" inside liner) or 8" diameter with a minimum height of 20 feet. Use a 6" flue pipe for connection to an existing chimney.

Installing the flue pipe

- Slide 6" Insert flue pipe onto the flue outlet and secure with 2 screws.

**NOTICE**

Avoid long horizontal flue pipe runs and keep the number of bends to a minimum.

- Install flue connections between boiler and chimney to slope up at least 1/4" per foot to the chimney.
- Connect the flue pipe to the chimney above the bottom of the chimney to prevent blockages.
- Install cleaning and service hatches for cleaning the flue system.

After starting the burner, set breaching draft to -.01 to -.02 inches WC with a draft gauge. (The overfire pressure can be positive). If necessary, install draft controllers in the flue system to maintain the negative pressure in the system or to meet code requirements. Always install the draft controller in vertical position. Use a draft gauge when making adjustments.

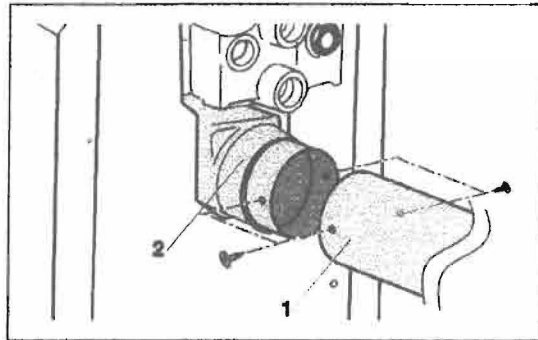


Fig. 45 Installing the flue pipe

- 1 Flue pipe
- 2 Boiler flue outlet



CITY OF PORTLAND, MAINE
Department of Building Inspections

Original Receipt

_____ 8-24 20 11 _____

Received from Christopher Swatt

Location of Work 22 Dering St

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 100

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

Other _____

CBL: 46-0-5

Check #: 100 Total Collected \$ 100

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

Taken by: [Signature]

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

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.**

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.