

Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

PERMIT ISSUED

Permit Number 051678 2005

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

This is to certify that RODRIGUEZ LUIS A & ERICA NDA C RODRIGUEZ JTS/LLCs S

has permission to install hood system for "Tu Casa"

at 70 WASHINGTON AVE

City of Portland ID # 013 C011001

Provided that the person or persons who apply for and accept this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in his department.

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

Notification of inspection must be given and when permission is procured before this building or part thereof is occupied or services closed-in. 4 HOUR NOTIFICATION REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. Greg Cass 11-17-05

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 05-1678	Issue Date: PERMIT ISSUED NOV 29 2005	CBL: 013 C011001
-----------------------	--	---------------------

Location of Construction: 70 WASHINGTON AVE	Owner Name: RODRIGUEZ LUIS A & ERLIND	Owner Address: 70 WASHINGTON AVE	Phone:
Business Name:	Contractor Name: Lebels Sheet Metal	Contractor Address: 221 Lincoln Street CITY OF PORTLAND	Phone: 207-2124019
Lessee/Buyer's Name	Phone:	Permit Type: Hood Systems, Commerical	Zone:

Past Use:	Proposed Use: Commercial/ install hood system for "Tu Casa"	Permit Fee: \$57.00	Cost of Work: \$3,990.00	CEO District: 1
------------------	---	-------------------------------	------------------------------------	---------------------------

FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied TO NRPA 96	INSPECTION: Use Group: <i>N/A</i> type: <i>EXHAUST/hood</i> <i>11/23/05</i> Signature: <i>Greg Carr</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Idobson	Date Applied For: 11/16/2005	Zoning Approval	
------------------------------------	--	------------------------	--

<ol style="list-style-type: none"> 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"/> >ate:	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 >ate:	Historic Preservation <input type="checkbox"/> Not in District or Landmarl <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 late:
---	---	---	---

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

City of Portland, Maine - Building or Use Permit

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

Permit No: 05-1678	Date Applied For: 11/16/2005	CBL: 013 C011001
------------------------------	--	----------------------------

Location of Construction: 70 WASHINGTON AVE	Owner Name: RODRIGUEZ LUIS A & ERLINDA	Owner Address: 70 WASHINGTON AVE	Phone:
---	--	--	---------------

Business Name:	(Contractor Name: Lebels Sheet Metal	Contractor Address: 221 Lincoln Street Lewiston	Phone (207) 212-4019
-----------------------	--	---	--------------------------------

Lessee/Buyer's Name	Phone:	Permit Type:
----------------------------	---------------	---------------------

Proposed Use: Commercial/ install hood system for "Tu Casa"	Proposed Project Description: install hood system for "Tu Casa"
---	---

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 11/23/2005

Note: **Ok to Issue:**

1) Installation shall comply with 2003 International Mechanical Code .

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 11/17/2005

Note: **Ok to Issue:**

1) System to be designed and installed to NFPA 96

All Purpose Building 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>20 Washington Ave</u>		
Total Square Footage of Proposed Structure	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>13</u> <u>C</u> <u>11</u>	Owner: <u>Luis Rodriguez</u> <u>20 Washington Ave</u> <u>Portland, ME 04101</u>	Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Lebel's</u> <u>221 Lincoln St</u> <u>Lewiston, ME 04240</u>	cost Of Work: \$ <u>3,990</u> Fee: \$ <u>57.00</u>
Current use: <u>Restaurant</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: <u>Install new Hood system -</u>		
Project description:		
Contractor's name, address & telephone: <u>Lebel's Sheet Metal</u> <u>782-2235 office</u> <u>221 Lincoln St. Lewiston</u> <u>212-4019 cell</u>		
Who should we contact when the permit is ready: <u>Paul Roy / Dennis Lebel</u>		
Mailing address:		
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: <u>782 2235</u>		

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>Dennis Lebel</u>	Date: <u>11.16.05</u>
---	-----------------------

This is NOT a permit, you may not commence ANY work until the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall



PORTLAND MAINE

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

Lee Urban- Director of Planning and Development
Michael J. Nugent- Inspections Division Director

Kitchen Exhaust System Checklist and Code Provisions

Dear Applicant,

The following is a checklist to assist you in filing for a permit for a Kitchen Exhaust system. The applicable Mechanical Code provisions have also been attached. Please complete this and submit job specific construction documents that demonstrate compliance with the attached information.

Type of System:

Type I X Type II _____

(Type I systems are systems that vent fryers, grills, broilers, ovens or woks. Type II systems are systems that vent steamers and other non grease producing appliances)

Type of Materials:

Is the hood Stainless steel or other type of steel? Stainless Steel If Other, what Type? _____

Is the duct work Stainless steel or other type of steel? 16 ga galvanized If Other, what type? _____

Thickness of the steel for the hood 16 ga

Thickness of the duct for the hood 16 ga

Type of Hood and Duct supports

aged 3" spacer to studs + Bolted Hood to spacer w/ 3/8" Bolts

Type of seams and Joints Welded

Grease Gutters provided? Yes

Hood Clearance from Combustibles materials 18"

Duct Clearance from Combustibles materials Insulated w/ Fire Rated Insulation

Vibration Isolation System: None

Air Velocity within the duct system 2000 CFM

Grease accumulation prevention system N.A.

Cleanouts N.A.

Grease Duct enclosure N.A.

Exhaust Termination Fan

Fire Suppression system Yes

Exhaust fan mounting and clearance from the roof or wall 16" to Bottom 48" from top

Exhaust fan distance from other vents or openings N.A.

Exhaust fan height above adjoining grade 48"

Hood Specs

Style of hood S.S.

Type of Filter: Galv. Grease Filters 20x25"

Height of filter above nearest cooking surface: 11"

Capacity of hood in CFM 4000 CFM

Make up Air system description and capacity N.A.

BID PROPOSAL
09/20/05

FROM:
LEBEL'S SHEET METAL
221 LINCOLN ST.
LEWISTON, ME 04240
TEL: 207-514-7090
FAX: 207-782-2235
CONTACT: PAUL ROY

TO:
CEI
2 PORTLAND FISH PIER
PORTLAND, ME 04101
TEL: 207-775-1984
FAX: 207-772-5503
ATT: JOHN SCRIBNER

RE: REVISED QUOTE / TU CASA

Price to fabricate and install a ^{48"}24" stainless steel extension to an existing 8' hood. Price also includes moving hood from downstairs location to new upstairs location. Price also includes moving fan and cutting hole for fan at new location. Installation of hood will be done in accordance with NFPA 96 for kitchen ventilation, therefor a 3" wall spacer will have to be installed on wall before re-installing hood. If existing fan does not exhaust properly, a new motor may have to be installed. (not in our price) Revised price includes relocation of hood to new area and ducting up thru roof. Hole in ceiling cut by others. Includes roof curb, cutting hole in roof and sealing roof.

NOT INCLUDED IN OUR PRICE:

- 1) WIRING OF FAN
- 2) FIRE SUPPRESSION SYSTEM
- 3) PRICE FOR NEW SET OF FILTERS: \$125.00

PRICE:\$3,900.00

Authorized Signature
Lebel's Sheet Metal

Paul Roy

Date *9/20/05*

Please call with any questions regarding this quote.
Thank-You for the opportunity to quote on this project.

Acceptance of Proposal _____

Date _____

If accepted, please sign and fax to: 207-782-2235



Thermal Ceramics

FIREMASTER[®]

Fire Protection Systems

6-pgs

Duct Wrap
Duct Wrap+
Commercial Kitchen Grease Duct
Air Ventilation Duct

Product Data & Installation Guide



NFPA 96
MEA
IMC

1. Product Description

Thermal Ceramics FireMaster[®] Duct Wrap and FireMaster Duct Wrap+ products are foil-encapsulated, non-combustible, high temperature, inorganic flexible fireproofing wrap materials specifically tested to provide a 1 or 2 hour fire rated enclosure for commercial kitchen grease and air ventilation ducts. The difference between the two wrap systems is the core material basic chemistries. FireMaster Duct Wrap is a high temperature ceramic fiber insulating blanket composed primarily of alumina and silica. FireMaster Duct Wrap+ is a body soluble, low biopersistence, alkaline-earth silicate wool. Both chemistries are free of binders and lubricants. FireMaster Duct Wrap and Duct Wrap+ products are classified by Underwriters Laboratories Listing and Follow-up Service Program to ensure uniform thickness and density specifications, thus providing consistency in end physical properties for required fire ratings based on the number of wraps applied. FireMaster Duct Wrap and Duct Wrap+ systems are proven performance alternatives through extensive testing to 1 or 2-hour fire-resistance rated shaft enclosures for commercial kitchen grease and air ventilation duct systems. With its excellent insulating capability of withstanding fire temperatures from 2000°F to 2300°F (1093°C to 1260°C), it protects combustible constructions at zero clearance throughout the entire cocoon wrap enclosure for commercial kitchen grease ducts in tight congested areas. When the commercial kitchen grease or air ventilation duct penetrates fire rated walls and floors, Fire Barrier 2000+, 1000 N/S or 1003 S/L Silicone Sealant used in combination with FireMaster Duct Wrap and Duct Wrap+ provides an alternate means of protection to rigid shafts by maintaining the integrity of the 1 or 2 hour floor or wall assembly.

Product Features

- Completely Inorganic
- Low biopersistence with FireMaster Duct Wrap+
- Alternate to rigid shaft enclosures
- Zero clearance to combustibles protection
- Wide range of proven performance testing for complex duct jobs
- Wide variety of through-penetration systems
- Compact wrap design saves space
- Lightweight flexible system requires minimum labor and resists cracking
- Problem solver for tight, congested areas
- Totally foil encapsulated system protects against material degradation and potential fire hazards
- Passive fire proof material does not lose fire fighting capabilities with age
- Product markings on foil ensure proper material identification for easy inspections



2. Applications

- 1 or 2 Hour Commercial Kitchen Grease Ducts
- 1 or 2 Hour Air Ventilation Ducts

3. Physical Characteristics

FireMaster Product	Unit	Size	Units Ctn.	Wt./Ctn.
Duct Wrap or Duct Wrap+	Roll	1 1/2" x 24' x 25' (37.5mm x 80cm x 7.5m)	1	45 lbs. (20kg)
Duct Wrap or Duct Wrap+	Roll	1 1/2" x 48' x 25' (37.5mm x 120cm x 7.5m)	1	87 lbs. (39kg)
Color		White filler blanket with silver foil encapsulation		

4. Specifications

This specification guide covers the application of FireMaster Duct Wrap, FireMaster Duct Wrap+ and Fire Barrier 2000+, 1000 N/S or 1003 S/L Silicone Sealants.

Application	Fire Resistive Rating	Enclosure System	Through-Penetration System
Grease Ducts	1 or 2 hours	2 layers FireMaster Duct Wrap or FireMaster Duct Wrap+ UL YYET 3" (75mm) perimeter and longitudinal overlap	UL C-AJ 7014 UL C-AJ 7021 ULC-FRD-4
Air Ventilation Duct Systems	1 hour	1 layer FireMaster Duct Wrap or FireMaster Duct Wrap+, V-1, V-3, 3" (75mm) perimeter and longitudinal overlap or optional butt joint plus collar wrap method	UL C-AJ 7012 UL C-AJ 7019 UL W-I-7041 ULC-FRD-3
Air Ventilation Duct Systems	2 hours	2 layers FireMaster Duct Wrap or FireMaster Duct Wrap+ UL V-2, V-4, 3" (75mm) perimeter and longitudinal overlap or optional butt joint plus collar wrap method	UL C-AJ 7014 UL C-AJ 7021 UL W-I-7041 ULC-FRD-3

Performance

FireMaster Duct Wrap & FireMaster Duct Wrap+

Flammability (ASTM # 84/UL 723)

Roll:	Flame spread	5
	Smoke developed	5
Blanket:	Flame spread	0
	Smoke developed	0

Thermal Resistance
 R value per ASTM C 518
 4.16 per inch at 70°F (21°C)

B. Fire Stop Sealant

3M™ Fire Barrier Sealant 2000+	1000 N/S	1003 S/L
Color	Light Gray	Light Gray
Working Time (min.)	10 - 20	5 - 10
Cure Time at 77°F (25°C), 50% R.H.	14 - 21 days	14 - 21 days
Flow, Sag, or Slump	Nil	Nil
Elongation at Break	600%	600%

6. Listings

Agency	Reference Standard/ File Number
Underwriters Laboratories Inc.	Grease Duct Enclosures (YYET): R14229; Fire Resistance Ventilation Duct Assemblies (HNLJ): V-1, V-2, V-3, V-4 Batts and Blankets (BKNV): R8418; Through-Penetration Firestop Systems (XHEZ): C-AJ-7012, C-AJ-7019, C-AJ-7014, C-AJ-7021, W-L-7041
SBCQ	Research Report B424D
BOCA	Research Report 21.51
NFPA	Complies with NFPA 98, 1998 Edition
California State Fire Marshal	Listing No. 2440-1381:100 4486-1381:101
New York City	MEA # 417-92-M (grease ducts) 417-92-M Vol II (air ventilation ducts)
North Carolina Mechanical Code	Sections 308.4.7, 308.4.10 Volume III
International Mechanical Code	Section 506 Commercial Kitchen Grease Ducts and Exhaust Equipment, Section 507 Commercial Kitchen Hoods

7. Installation

The FireMaster Duct Wrap and Duct Wrap+ systems shall be installed by a qualified contractor in accordance with the manufacturer's instructions and the referenced standards.

Materials and Equipment

- FireMaster Duct Wrap and Duct Wrap+ blanket, 1½" (38mm) thick, 24" (610mm) or 48" (1200mm) wide, 8 pol density, 26 (7.5m) long rolls, 48" (1200mm) wide blanket helps to minimize waste
- Aluminum foil tape
- Minimum ¾" (19mm) wide filament tape
- Carbon steel or stainless steel banding material, minimum ½" (12.5mm) wide, minimum 0.015" (0.38mm) thick, with steel banding clips
- Hand banding tensioner and crimping tool
- Minimum 12 gage copper-coated steel insulation pins 4" to 5" long (102 - 127mm) galvanized steel speed clips, minimum 1 ¼" (38mm) x 1 ¼" (38mm) square or 1 ½" dia (38mm), or equivalent sized cup-head pins; capacitor discharge stud gun

- Access door hardware: four galvanized steel threaded rods, ½" diameter (6.35mm) by 4 ½" to 5" long (114 to 127mm) with ¼" (6.35 mm) wing nuts and ¼" (6.35mm) washers; 4" (102mm) long steel tubing to fit threaded rods
- Fire Barrier 2000+, 1000 N/S or 1003 S/L silicone sealant

Storage:

The FireMaster Duct Wrap, Duct Wrap+, and Fire Barrier Silicone Sealant must be stored in a dry warehouse environment on pallets. Pallets should not be stacked.

Preparatory Work:

FireMaster Duct Wrap and Duct Wrap+ are installed with —on tools, such as knives, banders and capacitor discharge gun for applying insulation pins. In order to install the duct fire stop system, the surfaces of all openings and penetrating items need to be clean, dry, frost free, and free of dust

Installation techniques for Thermal Ceramics FireMaster Duct Wrap and Duct Wrap+ (Figure 1):

3" (75mm) Overlap Wrap Telescope - Each blanket overlaps one adjacent blanket a minimum of 3" (75mm), and each blanket has one edge exposed and one edge covered by the next blanket as shown in Figure 1. The visible edges of the longitudinal overlaps all point in the same direction

Butt Joint 6 Collar System - The adjacent blankets of both interior and exterior layers are firmly butted together with the exterior joints located 12" (300mm) from the interior joints. An 8" (200mm) wide collar made from FireMaster Duct Wrap or Duct Wrap+ is centered over each exterior joint, overlapping each blanket by 4" (101mm) as shown in Figure 1. The collar overlaps itself with a 3" (75mm) perimeter overlap.

2 & 3 Sided Wrap System - When space does not allow for a wrap enclosure on all four sides of the duct, the FireMaster Duct Wrap or Duct Wrap+ may be installed on 2 or 3 sides of the duct and mechanically attached to a concrete or CMU assembly on the unexposed side of the duct.

General:

Applies to all FireMaster Duct Wrap & FireMaster Duct Wrap+ Installation Methods

To minimize waste, FireMaster material should be rolled out fully before measuring. Cut edges of the blanket shall be taped with aluminum foil tape to prevent exposed edges of the insulation from wicking moisture from condensation or grease from a compromised leaking duct joint into the material and causing degradation of the fire barrier. The FireMaster material may be installed with either a mechanical banding system or insulation pins and clips (see Mechanical Attachment Methods below and figures 1 and 2). When using the banding technique caution shall be taken to ensure that the bands are not fitted too snug as which could result in cutting into the blanket. To prevent blanket sag on ducts with dimensions greater than or equal to 24" (600mm), insulation pins, long enough to extend through the of blanket insulation, are welded to the duct in Columns spaced 12" (305mm) apart, between 5" and 12" (152 and 305mm) from each edge and 10 ½" (267mm) on center along the bottom horizontal and outside vertical duct runs as shown in Figure 3. Insulation pins that extend beyond the blanket wrap shall be tuned down to eliminate sharp points

Support hanger systems do not need to be wrapped provided the steel hanger rods are at least a minimum of ½" (9.5mm) diameter and the steel angle is a minimum of 1 ¼" x 1 ¼" x ½" (38mm x 38mm x 9.2mm) Horizontal trapeze support system may be incorporated into the wrap enclosure

Tu Casa Rost. Hood.

Curb on Rubber
Roof Insulated
w/ 1" Ductboard
Insulation

Duct Transitioned
from Fan Size
with Fire
Insulation

3" Air Space
laged to wall
EVERY stud

3" Air
Space

Head to
Bolts
Sp

8' Existing Hood

4' Hood
added

