

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that UNION STATION PLAZA LIMITED

Located At 280 ST JOHN ST

Job ID: 2011-01-335-CH OF USE

CBL: 064 - - A - 001 - 001 - - - -

has permission to Install 2 Type 1 Kitchen Hoods, 5' over new sushi grill and 32" extension to existing kitchen hood 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

*Auth per B.W.*  
Fire Prevention Officer

*Sean P...* 4/11/11  
Code Enforcement Officer / Plan Reviewer

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

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

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

Job No: 2011-01-335-CH OF USE  2011-2143 HOOD	Date Applied: 3/21/2011	CBL: 064 - - A - 001 - 001 - - - -	
Location of Construction: 280 ST JOHN St. (966 Congress)	Owner Name: UNION STATION LMT Partnership	Owner Address: 12 Brook St., Wellesley. MA 02482	Phone:
Business Name:	Contractor Name: Dan Bourgin, Bourgin & Sons LLC	Contractor Address: 123 Davis Rd., Durham ME 041222	Phone:  (207) 749-1878
Lessee/Buyer's Name:	Phone:	Permit Type: Kitchen Hood	Zone:  B-2
Past Use:  Expansion of Jan Mee Restaurant (change of use #2011 -01-335)	Proposed Use:  Expansion of Jan Mee Restaurant - install Kitchen hood (hoo)	Cost of Work: 50000.00  Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A  Signature: <i>Bjankoff</i> (58)	CEO District:  Inspection: Use Group: A-2 Type: 2-TYPE 2 Hoods  Signature: <i>JMB</i>
Proposed Project Description: 280 St John - Install kitchen hood (hoo)		Pedestrian Activities District (P.A.D.)	

Permit Taken By:	<b>Zoning Approval</b>
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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><b>Special Zone or Reviews</b></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><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>OK</i> <i>3/29/11 ABU</i></p>	<p><b>Zoning Appeal</b></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><b>Historic Preservation</b></p> <p><input checked="" 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>ABU</i></p>
	<b>CERTIFICATION</b>		

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	PHON



# PORTLAND MAINE

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Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-01-335-CH OF USE

Located At: 280 ST JOHN

CBL: 064 - - A - 001 - 001 - - - -

## **Conditions of Approval:**

### **Fire**

1. Install shall comply with NFPA 96. A compliance letter is required.
2. Install shall comply with all manufacture's specifications.
3. A separate permit is required for the hood suppression system.

### **Building**

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Separate permits are required for electrical installations.
3. The hood, duct and exhaust shall be installed per manufacturer specifications. This permit is approved based on the plans submitted for reductions in the clearances based on the application of a UL approved fire wrap or equivalent assembly per code.

## 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.**

1. Close In Elec/Plmb/Framing
2. Final at completion

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.



*Emailed Same electronic*  
**General 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.

*966 Congress*

Location/Address of Construction: <i>Jan mee 280 St John St Portland me 04102</i>		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories <i>1</i>
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot#  <i>064 A 001</i>	Applicant * <u>must be owner, Lessee or Buyer</u> * Name <i>Khor, Siavy Hwo</i> Address City, State & Zip	Telephone: <i>Cell 415-3238</i>
Lessee/DBA (If Applicable) <i>1 copy OK</i>	Owner (if different from Applicant) Name <i>Bob Conner/Union Station PD</i> Address <i>12 Brook St</i> City, State & Zip <i>Wellesley, MA</i>	Cost Of Work: \$ <i>2000</i> <sup><i>total \$5500.00</i></sup> C of O Fee: \$ Total Fee: \$ <i>170.00</i>

*Hood #1 Hood #2*

**RECEIVED**

MAR 21 2011

Dept. of Building Inspections  
City of Portland Maine

Current legal use (i.e. single family) \_\_\_\_\_ Number of Residential Units \_\_\_\_\_  
 If vacant, what was the previous use? *Restaurant in use Add in Hood*  
 Proposed Specific use: \_\_\_\_\_  
 Is property part of a subdivision? \_\_\_\_\_ If yes, please name \_\_\_\_\_  
 Project description: *Install kitchen hood in dining room Hood #1 and Hood #2 Add a small hood to Existing Hood System.*

Contractor's name: *Bourgoin + Sons LLC*  
 Address: *123 Davis rd*  
 City, State & Zip: *Durham me 04222* Telephone: *353-7606*  
 Who should we contact when the permit is ready: *Dan Bourgoin* Telephone: *749-1878*  
 Mailing address: *123 Davis rd Durham me 04222* *call first*

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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: *Dan Bourgoin* Date: *3/9/11*

This is not a permit; you may not commence ANY work until the permit is issued



**Job Summary Report**  
**Job ID: 2011-01-335-CH OF USE**

Report generated on Mar 24, 2011 3:09:30 PM

Page 7

<b>Fee Code Description</b>	<b>Charge Amount</b>	<b>Permit Charge Adjustment</b>	<b>Permit Charge Adj Remark</b>	<b>Payment Date</b>	<b>Receipt Number</b>	<b>Payment Amount</b>	<b>Payment Adjustment Amount</b>	<b>Payment Adj Comment</b>
Certificate of Occupancy Fee	\$150.00			1/25/11	935	\$150.00		
Job Valuation Fees	\$140.00			1/25/11	935	\$140.00		

**CITY OF PORTLAND, MAINE**  
Division of Building Inspections

**Original Receipt**

March 20

Talk to  
Jeanie

Bouygain + Sons, LLC  
906 Congress / 966 St John

Building Fee \$ \_\_\_\_\_  
Site Fee \$ \_\_\_\_\_  
Certificate of Occupancy Fee \$ \_\_\_\_\_  
Total: \_\_\_\_\_  
Plumbing (15) Electrical (12) Site Plan (U2)

64 Accil  
1745 Total Collected 170.00

is to be started until permit issued.  
Keep original receipt for you records.

Luyle  
Dan Bouygain  
749 1878  
Look for permit





Install of Two Woods Both Type I

# PORTLAND MAINE

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Lee Urban - Director of Planning and Development  
Jeanie Bourke - Inspection Division Services 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:

Both Hood Is the hood Stainless steel or other type of steel? Stainless steel If Other, what Type? \_\_\_\_\_

Both Hood Is the duct work Stainless steel or other type of steel? 16ga galv steel If Other, what type? \_\_\_\_\_

Both hood Thickness of the steel for the hood 16ga stainless

Both hood Thickness of the duct for the hood 16ga galv steel

Both hood Type of Hood and Duct Supports  
Campy hood supports 3/8 threaded rod and one strut

Type of seams and Joints solid welded from fan to Hood  
on Both Hoods

- 1,2 Both Grease Gutters provided? Grease cup/pan At base of fan
- 1,2 Both Hood Clearance reduction to Combustibles design /specs:  
18" Away from combustible and fan well behind hood
- 1,2 Both Duct Clearance reduction to Combustibles design /specs:  
18" and wrap with 3m grease duct zero to combustible
- Vibration Isolation System:

1,2 Both Air Velocity within the duct system -.7510 Static pressure

1,2 Both Grease accumulation prevention system:  
N/A

1,2 Both Cleanouts N/A Duct work straight run

1,2 Both Grease Duct enclosure 3m grease duct wrap

1,2 Both Exhaust Termination Roof X Wall \_\_\_\_\_

1,2 Both Fire Suppression System Ansul Done by other (Fire safe)

1,2 Both Exhaust fan mounting and clearance from the roof / wall or Combustibles:  
Fan mounted 18" off roof

1,2 Both Exhaust fan distance from property lines 10' plus

1,2 Both Exhaust fan distance from other vents or openings 10' plus

1,2 Both Exhaust fan distance from adjacent buildings 10' plus

1,2 Both Exhaust fan height above adjoining grade 20'

**Hood Specs**

1,2 Both Style of Hood Box Hood canopy

1,2 Both Type of Filter Grease baffles

1,2 Both Height of filter above nearest cooking surface 36" to 48"

Capacity of hood CFM 2200 CFM AT .510 SP. (Hood #1) (Hood #2 1000 AT .366)

Make up Air system description and capacity

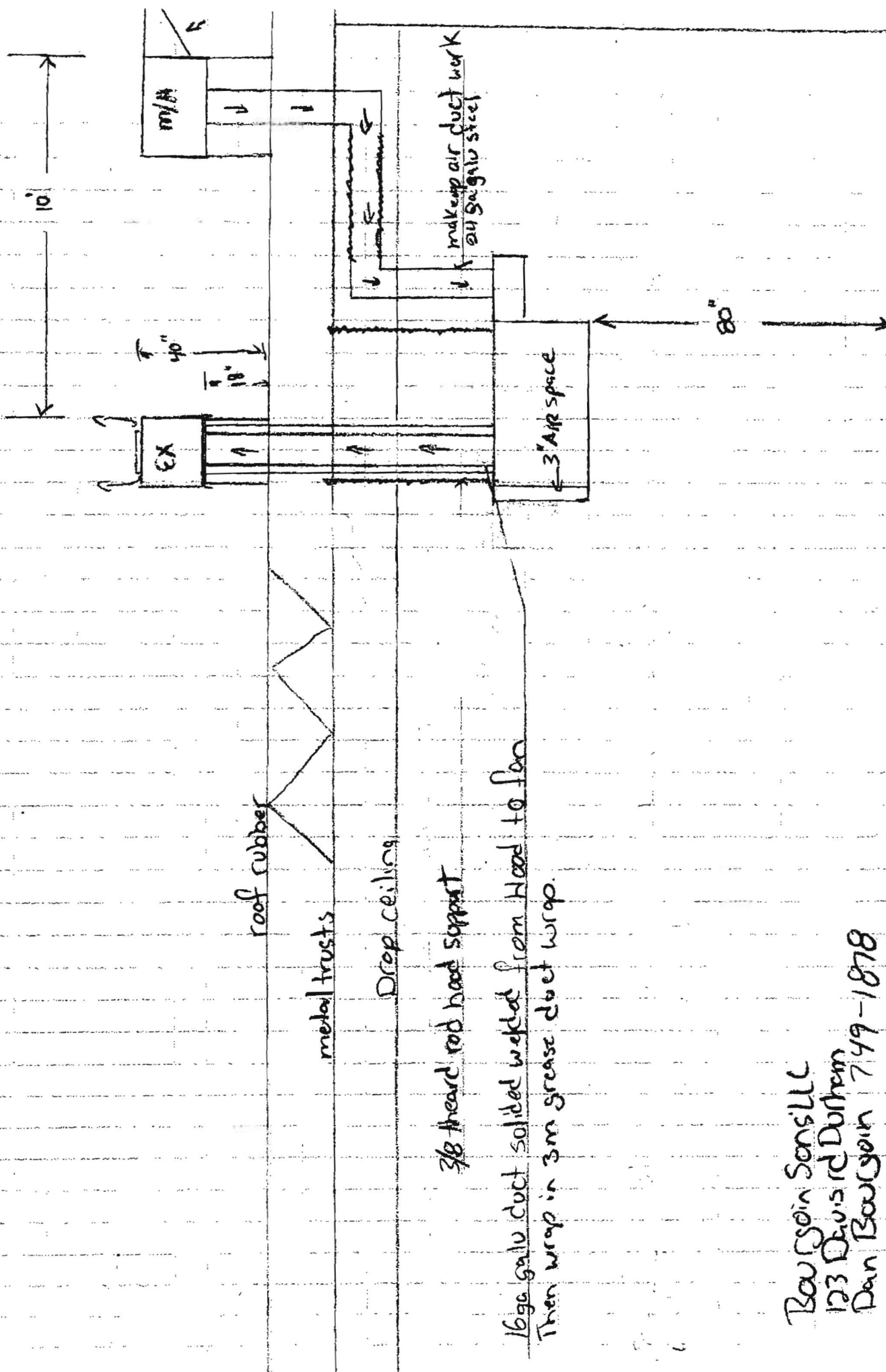
only on Hood #1 make up air fan mounted on roof 10' way from Exhaust

24ga galv duct wrap and Flexible duct, make up air To be vented through supply plenum perforated in front of Hood

(Hood #2 Exhaust only just Add 32" to Existing Hood system)

# Hood #1 Drawing

Job Jan mee  
ST Johnst Pattland



roof rubber

metal trusses

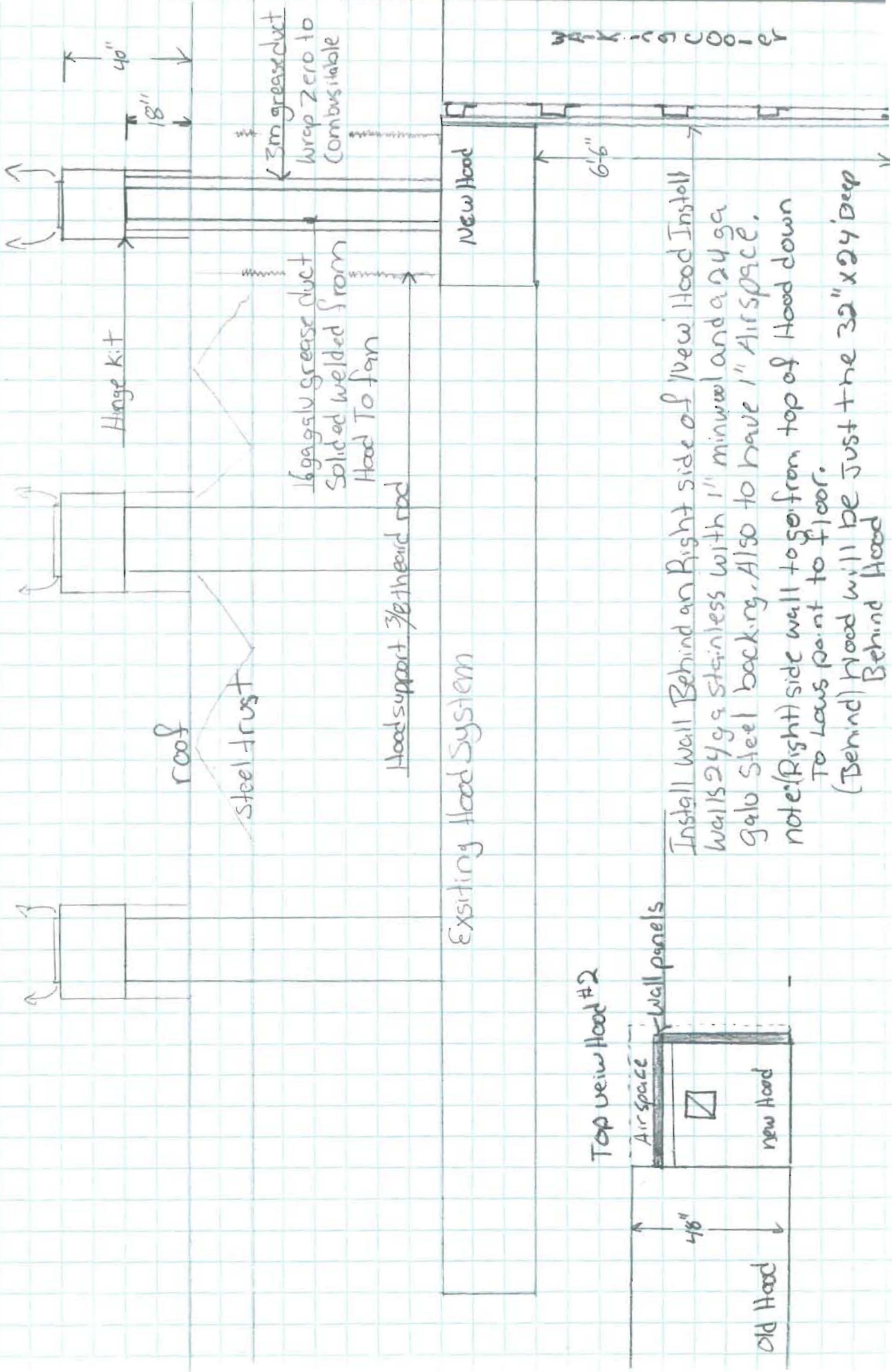
Drop ceiling

3/8 thread rod hood support

16 ga galv duct solid welded from Hood to fan  
Then wrap in 3m grease duct wrap.

Bougain Sons LLC  
123 Davis rd Durham  
Dan Bougain 749-1878

# Drawing Hood #2

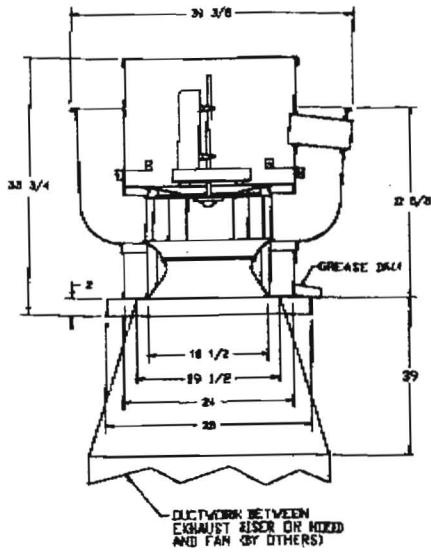


Install wall Behind on Right side of 'New Hood Install walls 24 ga stainless with 1" mineral and a 24 ga galv steel backing. Also to have 1" Airspace. note: (Right) side wall to go from top of Hood down To Lows point to floor. (Behind) Hood will be just the 32" x 24" deep Behind Hood

Working Cooler

Hood #1

FAN #1 NCA16FA - EXHAUST FAN



**FEATURES**

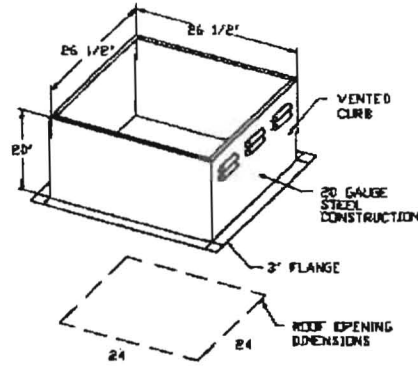
- ROOF MOUNTED FAN
- RESTAURANT TYPE
- UL709 AND UL98
- AMCA 2096 AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT EMERGENCY STOP (HETS)
- GREASE CLASSIFICATION TESTING

**NORMAL TEMPERATURE TEST**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DEGRADATION EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

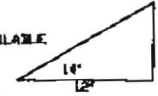
**ABNORMAL FLARE-UP TEST**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 18 HOURS WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT WOULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

- GREASE BOX
- FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH  
 EXAMPLE: 7/12 PITCH = 30° SLOPE

ROOF PITCH FOR CURB(S) MUST BE SPECIFIED PRIOR TO RELEASING ORDER  
 ---12

**CUSTOMER APPROVAL TO MANUFACTURE:**

Approved as Noted

Approved with NO Exception Taken

Order and Revisions

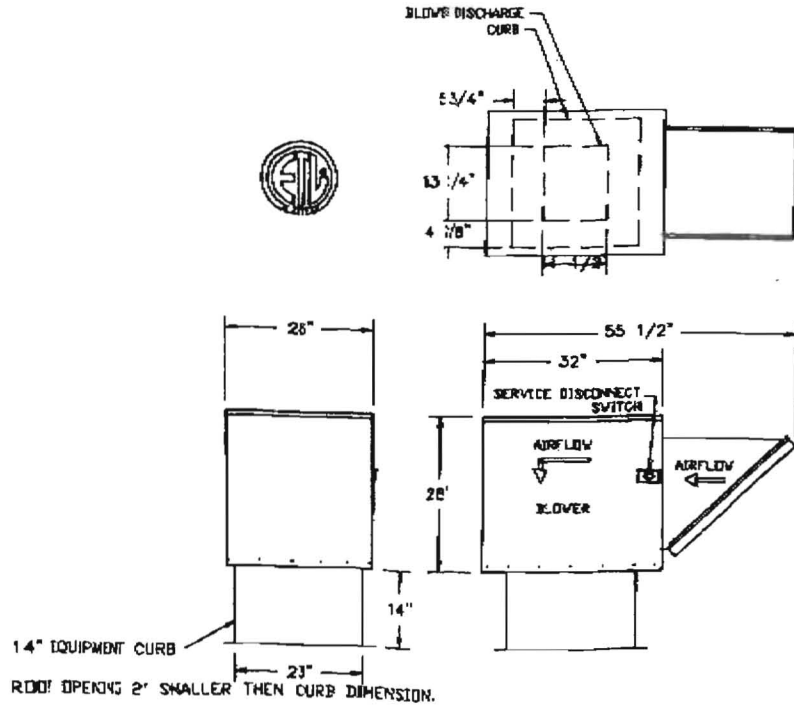
SIGNATURE \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

<b>CAPTIVEAIRE</b>		JOB Jan Mee (hibachi) r2	
		LOCATION Biddeford, ME	
DATE 3/8/2011	JOB # 1305507		
DWG # 4	DRAWN BY BFC		
REV.	SCALE 1/32		

Hood #1

- FAN #2 NSAU1-G10 - SUPPLY FAN
- 1 SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING
- 2 INTAKE HOOD WITH E2 FILTERS
- 3 DOWN DISCHARGE - AIR FLOW RIGHT → LEFT
- 4 GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE
- UNTEMPERED FAN HOUSING (S105)



ROOF PITCH FOR CURB(S) MUST BE SPECIFIED PRIOR TO RELEASING ORDER  
 \_\_\_\_:12

**CUSTOMER APPROVAL TO MANUFACTURE:**

Approved as Noted

Approved with NO Exception Taken

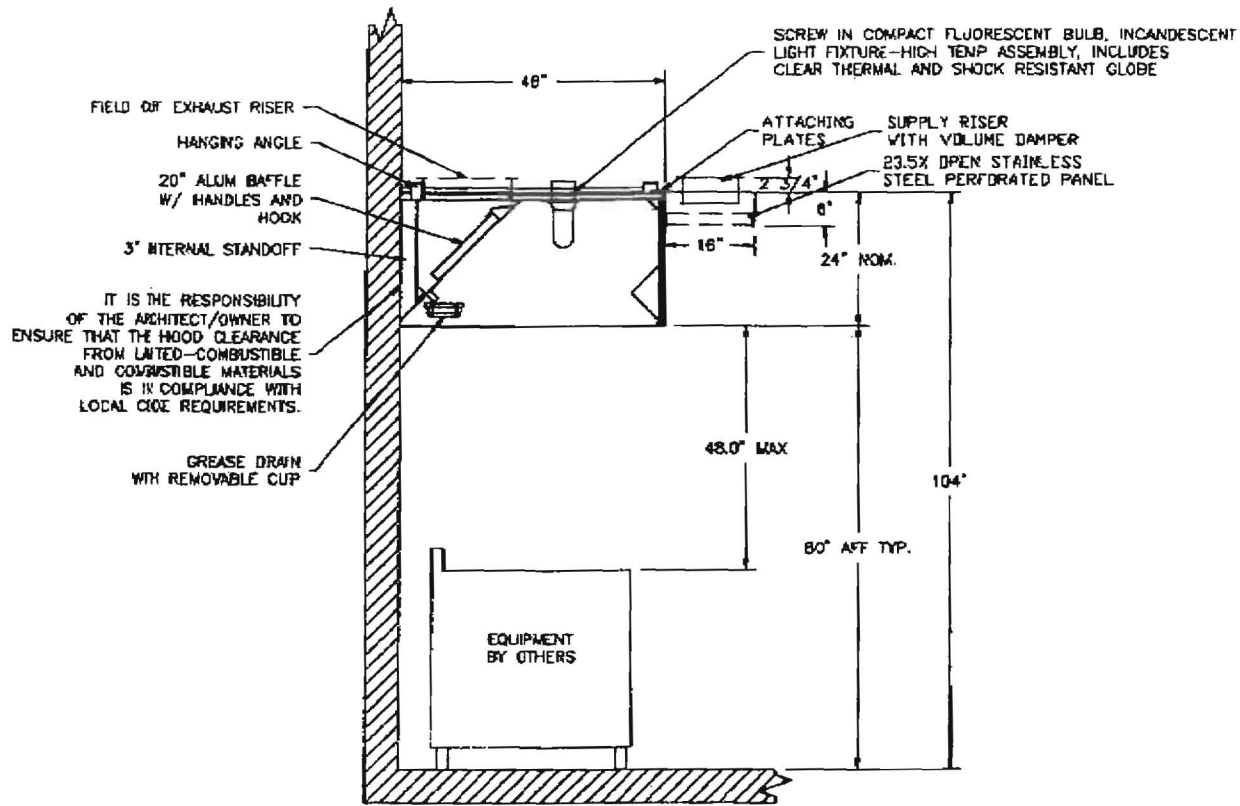
price will increase

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

<b>CAPTIVE AIRE</b>		JOB Jon Mee (hibachi) r2	
		LOCATION Bladeford, ME	
DATE 3/8/2011	JOB # 1305507		
DWG # 5	DRAWN BY BFC		
REV.	SCALE 1/32		

Hood #1



SECTION VIEW - MODEL 4824ND-2-PSP-F  
HOOD - #1

CUSTOMER APPROVAL TO MANUFACTURE:

Reviewed as Noted	<input type="checkbox"/>
Reviewed with NO Exception Taken	<input type="checkbox"/>
Reviewed and Approved	<input type="checkbox"/>
SIGNATURE _____	DATE _____
TITLE _____	DATE _____

**CAPTIVE AIRE**

JOB	Jan Mee (Hilbach) r2	
LOCATION	Biddeford, ME	
DATE	3/8/2011	JOB # 1303507
DWG #	2	DRAWN BY BFC
REV.		SCALE 1/32

Hood #1

**EXHAUST FAN INFORMATION**

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	RV	S.P.	RPM	H.P.	#	VOLT	FLA	WEIGHT (LBS.)
1	NCA16FA	NCA16FA		350	0.700	848	0.750	1	115	11.0	188.41

**HEATER/MUA FAN INFORMATION**

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	WG	CPK	S.P.	RPM	H.P.	#	VOLT	FLA	WEIGHT (LBS.)
2	NSAU1-010	G10	NSAU1			1935	0.500	818	1.000	1	115	203.00

**FAN OPTIONS**

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts
2	1 - Greily Backdraft Damper for Site 1 Housing

**FAN ACCESSORIES**

FAN UNIT NO.	FAN UNIT TAG	EXHAUST			SUPPLY			
		GREASE CLIP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2						YES		

**URB ASSEMBLIES**

NO.	QTY FAN	ITEM	WZL
1	# 1	Durb	26.500"W x 26.500"L x 20.000"H Pithed (SPECFY) Vented Hinged
2	# 2	Durb	23.000"W x 23.000"L x 14.000"H Pithed (SPECFY)

**CUSTOMER APPROVAL TO MANUFACTURE**

Approved as Noted   
 Approved with MD Exception Taken   
 Approved with Repairs   
 Date: \_\_\_\_\_



JOB	Jon Mee (Hibachi) r2
LOCATION	Bladeford, ME
DATE	3/8/2011
DWG #	3
REV.	
JOB #	1305507
DRAWN BY	BFC
SCALE	1/32



Hood #1



**HOOD INFORMATION**

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM					SUPPLY PLENUM					HOOD CONSTRUCTION	HOOD CORING	
				TOTAL EXH. CFM	WIDTH	LENG. DIA.	CFM	S.P.	TOTAL SUP. CFM	WIDTH	LENG.	DIA.	CFM		S.P.	END TO END
1	4824ND-2-PSP-F	5' 0.00"	380 Deg.	2258		16"	2260	-0.510"	958					430 SS	ALONE	ALONE

**HOOD INFORMATION**

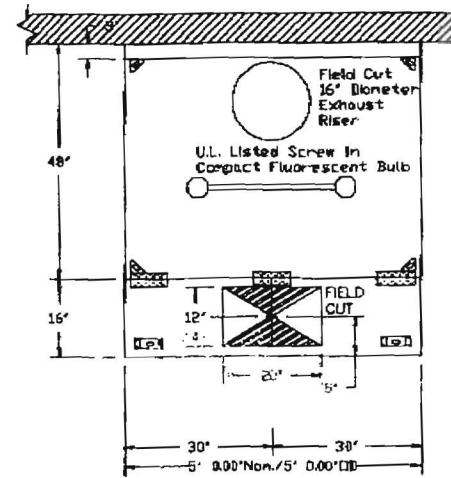
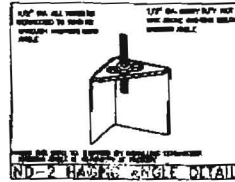
HOOD NO.	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL		SWITCHES		FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
									TYPE	SIZE	MODEL #	QUANTITY	LOCATION	LOCATION		
1	Alum Baffle w/ Handles	3	20"	20"	2	Screw In Compact Fluorescent	NO								ND	282 LBS

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	RESERVOIR				
					WIDTH	LENG.	DIA.	DR.	S.P.
1	Front	30"	16"	6"	2"	20"	96"	1.280"	

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

Inter-tek NSF #96  
NSF STANDARDS  
UL 710 & UL710 STANDARDS  
E.T.L. LISTED 3854804-001



PLAN VIEW - Hood #1  
5' 0.00" LONG 4824ND-2-PSP-F

CUSTOMER APPROVAL TO MANUFACTURE:

Appr: \_\_\_\_\_ Yes as Noted

Appr: \_\_\_\_\_ Yes with ND Exception Taken

Review: \_\_\_\_\_ and Resident

SIGN: \_\_\_\_\_ TITLE \_\_\_\_\_

Your: \_\_\_\_\_ Date: \_\_\_\_\_

**CAPTIVE-AIRE**

JOB	Jan Mee (hibachi) r2		
LOCATION	Biddeford, ME		
DATE	3/8/2011	JOB #	1305507
DWG #	1	DRAWN BY	BFC
REV.		SCALE	1/32

Hood #1

<b>AirHandler Wiring</b>	JOB NAME Jan Mee (hibachi) r2	DATE 3/8/2011																																				
DRAWING NUMBER A1305507-2	JOB NUMBER 1305507	MODEL NSAD1-G10																																				
<p>ATTENTION ELECTRICIAN DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED CONNECT POWER TO THE DROP</p>		<u>Installed Options</u>																																				
<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Component Identification</th> </tr> <tr> <th style="text-align: left;">Label</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Location</th> </tr> </thead> <tbody> <tr> <td>MT-01</td> <td>Supply motor</td> <td>(2)</td> </tr> <tr> <td>SV-01</td> <td>Main disconnect switch</td> <td>(2)</td> </tr> </tbody> </table> <table style="width:100%;"> <tr> <td style="width:30%;"><b>Supply</b></td> <td><b>Motor Info</b></td> </tr> <tr> <td>HP</td> <td>1</td> </tr> <tr> <td>VOLTS</td> <td>1 phs 115 V</td> </tr> <tr> <td>FLA</td> <td>14</td> </tr> <tr> <td>CONTACTOR</td> <td>100-C16010</td> </tr> <tr> <td>OVERLOAD</td> <td>193-T1AC16</td> </tr> </table> <p style="text-align: center;">MINIMUM CIRCUIT AMPACITY: 17.5A</p> <p style="text-align: center;"><b>NOTES</b></p> <p>----- DENOTES FIELD WIRING</p> <p>————— DENOTES INTERNAL WIRING</p> <p style="text-align: center;"><b>WIRE COLOR</b></p> <table style="width:100%;"> <tr> <td>BK - BLACK</td> <td>YV - YELLOW</td> </tr> <tr> <td>BL - BLUE</td> <td>GR - GREEN</td> </tr> <tr> <td>BR - BROWN</td> <td>OY - GRAY</td> </tr> <tr> <td>OR - ORANGE</td> <td>PR - PURPLE</td> </tr> <tr> <td>RD - RED</td> <td>PK - PINK</td> </tr> <tr> <td>WH - WHITE</td> <td></td> </tr> </table>	Component Identification			Label	Description	Location	MT-01	Supply motor	(2)	SV-01	Main disconnect switch	(2)	<b>Supply</b>	<b>Motor Info</b>	HP	1	VOLTS	1 phs 115 V	FLA	14	CONTACTOR	100-C16010	OVERLOAD	193-T1AC16	BK - BLACK	YV - YELLOW	BL - BLUE	GR - GREEN	BR - BROWN	OY - GRAY	OR - ORANGE	PR - PURPLE	RD - RED	PK - PINK	WH - WHITE	
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OR - ORANGE	PR - PURPLE																																					
RD - RED	PK - PINK																																					
WH - WHITE																																						

Hood #1

**Exhaust Fan Wiring**

JOB NAME Jan Mee (hbach) r2

DATE 3/8/2011

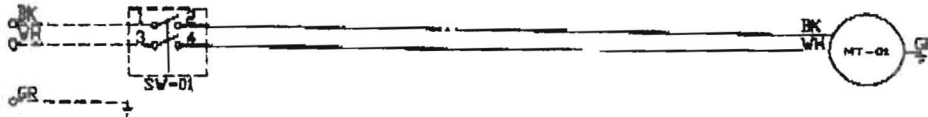
DRAWING NUMBER EXH1305507-1

JOB NUMBER 1305507

MODEL NCA16FA

Installed Options

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23



Component Identification		
Label	Description	Location
MT-01	Fan Motor	(2)
SW-01	Main disconnect switch	(P1)

Exhaust HP 0.75  
 VOLTS 1 phs 115 V  
 FLA 11  
 CONTACTOR 100-K12B10M  
 OVERLOAD 193-KC12

MINIMUM CIRCUIT AMPACITY: 13.8A

**NOTES**  
 - - - - DENOTES FIELD WIRING  
 \_\_\_\_\_ DENOTES INTERNAL WIRING

**WIRE COLOR**  
 BK - BLACK YV - YELLOW  
 BL - BLUE GR - GREEN  
 BR - BROWN GY - GRAY  
 OR - ORANGE PR - PURPLE  
 RD - RED PK - PINK  
 WH - WHITE

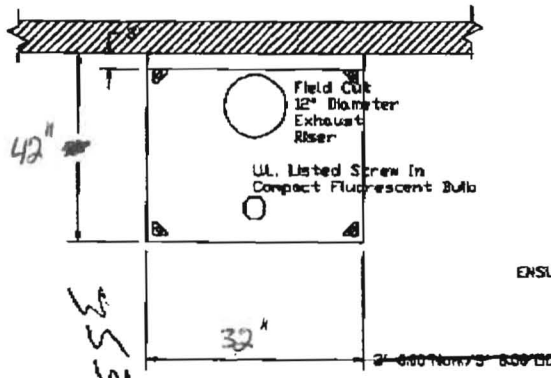
Hood #2 IS To Add to Existing Hood in main Kitchen

**HOOD INFORMATION**

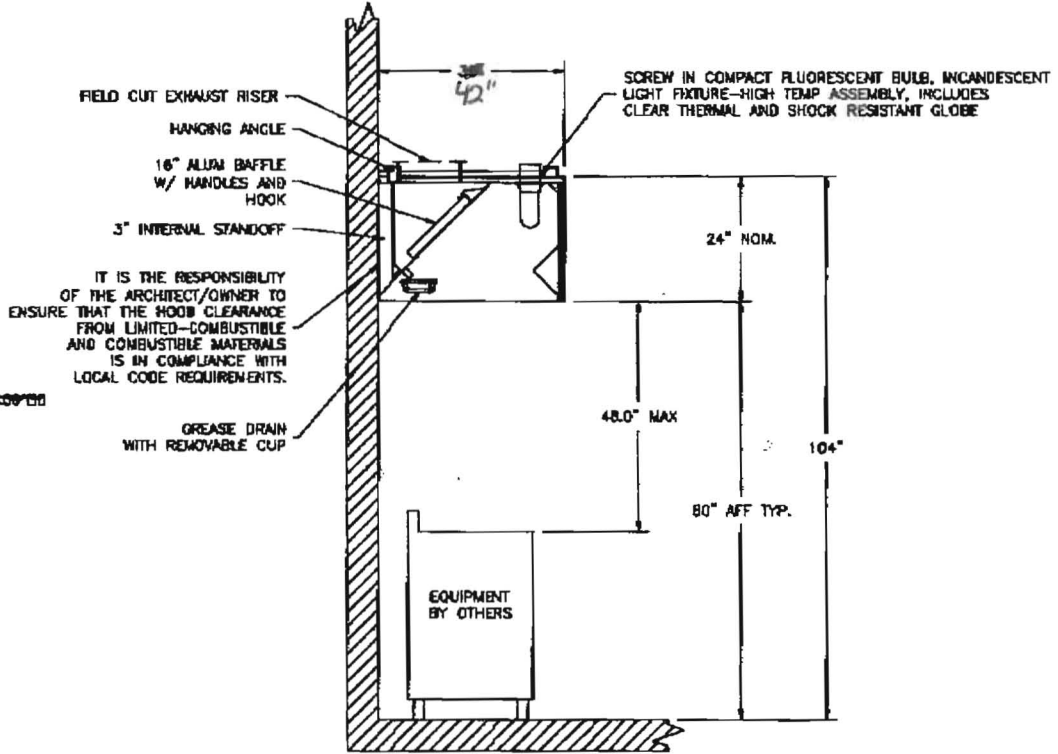
HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLUMBING (FEET)					TOTAL SUP. CFM	SUPPLY PLUMBING (FEET)					HOOD CONSTRUCTION	HOOD CONFIG.	
					WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.		END TO END	ROW
1	3624 ND-2	3' 8.00"	640 Deg.	1060		12"	1000	-0.386"	0					430 SS 100K	ALONE	ALONE		

**HOOD INFORMATION**

HOOD NO.	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	TYPE GUARD	LOCATION	FIRE SYSTEM		UTILITY CABINET		FIRE SYSTEM PIPING	HOOD HANGING HEIGHT
									TYPE	SIZE	MODEL #	QUANTITY		
1	Atom Bottle w/ Handles	2	16"	16"	1	Screw In Compact Fluoro	NO						NO	186 LBS



PLAN VIEW - Hood #1  
3' 8.00" LONG 3624ND-2



SECTION VIEW - MODEL 3624ND-2

CUSTOMER APPROVAL TO MANUFACTURE:

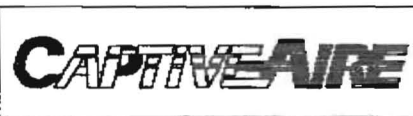
Approved as Noted

Approved with NO Exception Taken

Revised and Rechecked

SIGNATURE \_\_\_\_\_

Your Title \_\_\_\_\_ Date \_\_\_\_\_



JOB	Jan Mee (wak)	
LOCATION	Biddeford, ME	
DATE	3/10/2011	JOB # 1305051
DRG #	1	DRAWN BY BFC
REV.		SCALE 1/32

#0887 P.001/004

ABILITY EQUIPMENT SALES

03/11/2011 08:10 12072889587

03/11/2011 07:58 12072889587

ABILITY EQUIPMENT SALES

#0887 P.001/004

PDF created with pdfFactory trial version [www.pdffactory.com](http://www.pdffactory.com)

Hood #2

**EXHAUST FAN INFORMATION**

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	S.P.	RPM	H.P.	4	VOLT	PLA	WEIGHT (LBS.)
1	#DA10FA	NON DFA		1050	0.300	988	0.333	1	115	7.0	108.73

**FAN OPTIONS**

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Cheese Box
	1 - For Same Dynamic Seal - For On-site Data

**FAN ACCESSORIES**

FAN UNIT NO.	FAN UNIT TAG	EXHAUST	SUPPLY
1		GRAVITY DAMPER CUP	GRAVITY DAMPER MOTORIZED
		YES	

**CURB ASSEMBLIES**

NO.	FAN	ITEM	SIZE
1	# 1	Curb	18,000"H x 19,500"L x 20,000"DH FLAT ROOF Vented Hinged

**CUSTOMER APPROVAL TO MANUFACTURE:**

Approved as Noted

Approved with NO Exception Taken

Review and Resubmit

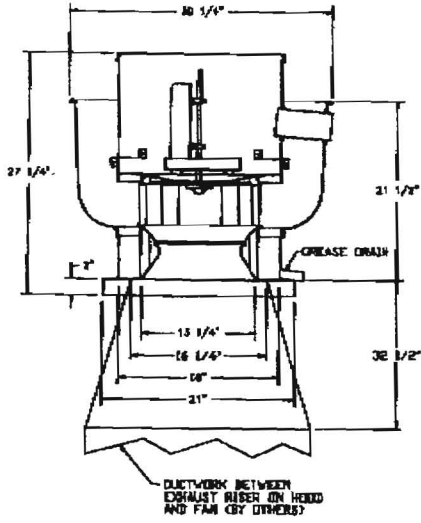
SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_



JOB	Jan Mee (trak)
LOCATION	Biddeford, ME
DATE	3/10/2011
JOB #	1305051
DRG #	2
REV.	SCALE 1/32

Hood #2

FAN IN HOOD - EXHAUST FAN



FEATURES:

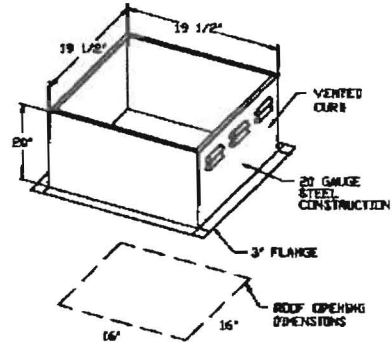
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL759 AND UL758
- NEMA SOUND AND AIR CERTIFIED
- VIBRO FREE MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTED

**NORMAL TEMPERATURE TEST**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DEGRADATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLAME-UP TEST**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BLENDING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 18 HOURS WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

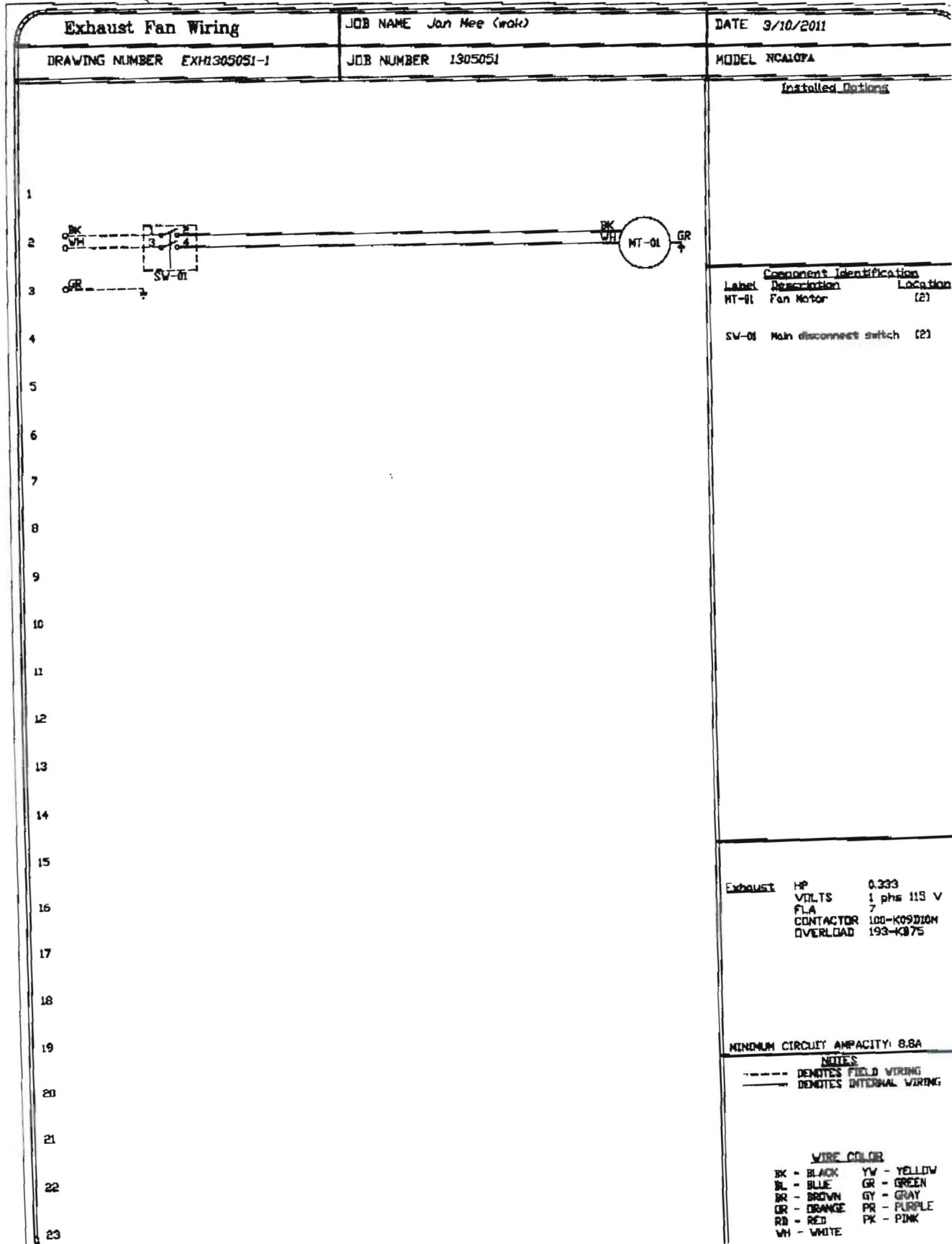
- GREASE BOX
- FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Rated	<input type="checkbox"/>
Approved With No Exception Taken	<input type="checkbox"/>
Review and Re-submit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____

<b>CAPTIVE AIRE</b>		JOB	Jan Mee (wok)
		LOCATION	Biddeford, NE
DATE	3/10/2011	JOB #	1305051
DRG #	3	DRAWN BY	BFC
REV.		SCALE	1/32

Hood #2



3M Duct wrap For Hood #1, #2

## Fire Barrier Duct Wrap 615+

Duct Wrap Fire Protection System for Commercial Kitchen Grease and Ventilation Air Ducts

### Product Data



### 1. Product Description

3M™ Fire Barrier Duct Wrap 615+ is a fire resistant wrap consisting of an inorganic fiber blanket encapsulated with a scrim-reinforced foil. The product is 1-1/2 in. thick, 6pcf density.<sup>1</sup> It is used to fire rate commercial kitchen grease ducts as well as ventilation ducts, and is a proven alternative to 1 or 2 hour fire resistant rated shaft enclosures. With its excellent insulating capabilities, low weight and thin profile, it is an ideal choice for a duct enclosure system. This non-asbestos wrap installs easily because of its high flexibility and strength.

#### Features

- Two-layer wrap for grease ducts rated as a shaft alternative per ASTM E 2336
- Zero clearance to combustible throughout the entire enclosure system for congested spaces
- One-layer wrap for fire-resistive ventilation ducts per ISO 6944
- High flexibility for installation ease
- Foil encapsulated for blanket protection, less dust, and high wrap strength
- Widest range of penetration seal systems

### 2. Applications

Two-layer applications of 3M™ Fire Barrier Duct Wrap 615+ meet the criteria of ASTM E 2336 'Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems'.

3M™ Fire Barrier Duct Wrap 615+ as single-layer fire resistant wrap application has passed the ISO 6944 'Fire Resistance Tests – Ventilation Ducts'.

3M™ Fire Barrier Duct Wrap 615+ is an ideal fire resistive enclosure for commercial kitchen grease ducts and ventilation air ducts. It is a proven performance alternative to a 1 or 2 hour fire resistant rated shaft enclosures and provides zero clearance to combustible construction throughout the entire enclosure system. 3M™ Fire Barrier Water Tight Sealant 1000 NS, 3M™ Fire Barrier Water Tight Sealant 1003 SL or 3M™ Fire Barrier Water Tight Sealant 2000+ Silicone Sealants is used in combination with 3M™ Fire Barrier Duct Wrap 615+ to firestop the duct when the duct penetrates fire rated floors and walls.

### 3. Availability

Unit	Size	Quantity	Weight
Roll	24 in. x 25 ft. (60,9 mm x 635 cm)	1	45 lbs (20.4 kg)
Roll	48 in. x 25 ft. (121 cm x 635 cm)	1	90 lbs (40.8 kg)

### 4. Typical Physical Properties

Blanket Color	Weight
White	0.9 lbs./ft. <sup>2</sup> (4.38 kg/m <sup>2</sup> )

<sup>1</sup> In accordance with the tolerances in ASTM C 892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation.

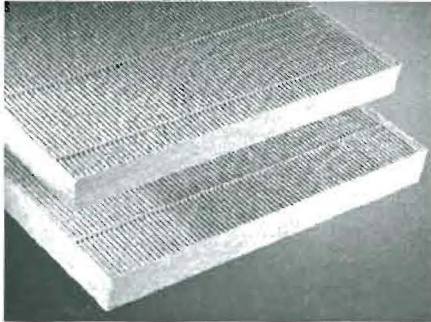




## High Temperature Industrial Board Insulations

1240, 1260, 1280, 1210, 1212

*Insulation Behind Hood on side of Hood*



- Type 1240       Type 1210
- Type 1260       Type 1212
- Type 1280

### Description

Owens Corning High Temperature Industrial Board Insulations are made of inorganic fibers derived from basalt, a volcanic rock, in semi-rigid to rigid board form, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality for excellent performance in high temperature thermal control and fire resistance applications.

### Uses

Owens Corning High Temperature Industrial Board Insulations provide excellent thermal insulation performance for boilers, precipitators, ducts and mechanical equipment and systems operating at continuous use surface temperatures from sub-ambient to 1200°F (649°C). These insulation boards are easily fabricated, cutting cleanly and easily with a knife. Their very low in-service shrinkage helps to prevent gaps from forming at joints, preventing costly thermal leaks.

### Features/Benefits

#### Excellent Thermal Performance

Good thermal conductivity values help maximize control of heat loss, contributing to reduced operating costs and greater energy savings. High dimensional stability and low shrinkage reduces the potential for gaps forming at joints.

#### Good Compressive Strength

These semi-rigid to rigid insulation boards maintain their structural integrity under severe operating conditions. Thickness stays uniform; there is less jacket damage.

#### Lightweight, Low Dust

Easy to handle and fabricate, these insulations are readily cut with a knife. No sawing is required. Their clean handling properties help reduce irritation and minimize job clean-up time and expense. They may be installed directly to heated surfaces; system shut-down and staged heat-up are not necessary.

#### Excellent Fire-Related Performance

These high temperature insulation products have flame spread ratings of 5 and smoke developed ratings of 0 when tested in accordance with UL 723, ASTM E 84 or CAN/ULC-S102-M. They are rated noncombustible when tested in accordance with ASTM E 136.

#### Good Physical and Chemical Properties

There's no loss of thermal integrity from binder burn-out. Low water vapor sorption reduces the likelihood that these insulations will mold or mildew.

#### Availability

Owens Corning High Temperature Industrial Board Insulations are available in five nominal densities in accordance with ASTM C 612 procedures, and in a range of standard thicknesses, as follows:

Type 1240	3 lb/ft <sup>3</sup>	(48 kg/m <sup>3</sup> )
Type 1260	4.5 lb/ft <sup>3</sup>	(72 kg/m <sup>3</sup> )
Type 1280	6 lb/ft <sup>3</sup>	(96 kg/m <sup>3</sup> )
Type 1210	7.5 lb/ft <sup>3</sup>	(120 kg/m <sup>3</sup> )
Type 1212	9 lb/ft <sup>3</sup>	(144 kg/m <sup>3</sup> )
STANDARD SIZE	24" (0.6m) x 48" (1.2m)	
STANDARD THICKNESSES	1" (25mm) to 5" (127mm) in 1/2" (13mm) increments	

Owens Corning High Temperature Industrial Board Insulations are available with FSP reinforced foil facings on a made-to-order basis. Custom sizes are also available on a made-to-order basis.

### Specification Compliance

- ASTM C 612, Mineral Fiber Block and Board Thermal Insulation, Types IA, IB, II, III, IVA – all products. Types 1260, 1280, 1210, and 1212 also meet type IVB.
- U. S. Coast Guard Approval No. 164.109/7/0 (Noncombustible Materials)
- CAN/CGSB-51.10 – Type 2, Class 4 – Types 1240, 1260, 1280; Type 1, Class 4 – Types 1210, 1212

For application to austenitic stainless steel, please contact your Owens Corning Representative for lot testing requirements.

### Physical Property Data

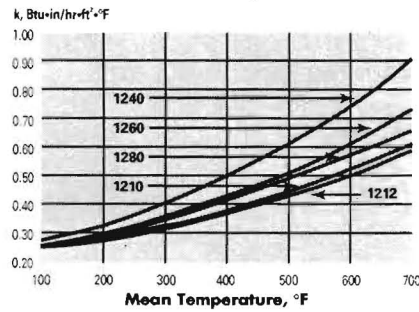
Property	Test Method	Value															
Maximum service temperature	ASTM C 411	Continuous use to 1200°F (649°C)															
In-service shrinkage	ASTM C 356	0% at 1050°F (566°C) <1% at 1200°F (649°C)															
Water vapor sorption	ASTM C 1104	<1.0% by weight at 120°F (49°C), 95% R.H.															
Shot content	ASTM C 1335	<20%															
Surface burning characteristics	UL 723,* ASTM E 84* or CAN/ULC-S102-M*	Flame spread 5* Smoke developed 0															
Noncombustibility	CAN4-S114-M	Noncombustible															
Compressive strength (minimum) at 10% deformation	ASTM C 165	<table border="0"> <tr> <td>Type 1240</td> <td>Type 1260</td> <td>Type 1280</td> <td>Type 1210</td> <td>Type 1212</td> </tr> <tr> <td>25 lb/ft<sup>2</sup></td> <td>75 lb/ft<sup>2</sup></td> <td>120 lb/ft<sup>2</sup></td> <td>250 lb/ft<sup>2</sup></td> <td>250 lb/ft<sup>2</sup></td> </tr> <tr> <td>(1.2 kPa)</td> <td>(3.6 kPa)</td> <td>(5.8 kPa)</td> <td>(12 kPa)</td> <td>(12 kPa)</td> </tr> </table>	Type 1240	Type 1260	Type 1280	Type 1210	Type 1212	25 lb/ft <sup>2</sup>	75 lb/ft <sup>2</sup>	120 lb/ft <sup>2</sup>	250 lb/ft <sup>2</sup>	250 lb/ft <sup>2</sup>	(1.2 kPa)	(3.6 kPa)	(5.8 kPa)	(12 kPa)	(12 kPa)
Type 1240	Type 1260	Type 1280	Type 1210	Type 1212													
25 lb/ft <sup>2</sup>	75 lb/ft <sup>2</sup>	120 lb/ft <sup>2</sup>	250 lb/ft <sup>2</sup>	250 lb/ft <sup>2</sup>													
(1.2 kPa)	(3.6 kPa)	(5.8 kPa)	(12 kPa)	(12 kPa)													

\* The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E 84 or CAN/ULC-S102-M. These standards should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

1240, 1260, 1280, 1210, 1212

# High Temperature Industrial Board Insulations

## Thermal Conductivity



Apparent thermal conductivity curve determined in accordance with ASTM Practice C 1045 with data obtained by ASTM Test Method C 177. Values are nominal, subject to normal testing and manufacturing tolerances.

Mean Temp. °F	k, Btu-in/hr-ft²-°F					Mean Temp. °C	λ, W/m-°C				
	1240	1260	1280	1210	1212		1240	1260	1280	1210	1212
75	0.24	0.23	0.23	0.23	0.24	25	0.035	0.034	0.033	0.034	0.034
100	0.26	0.25	0.24	0.25	0.25	50	0.040	0.038	0.037	0.037	0.037
200	0.33	0.31	0.30	0.30	0.30	100	0.050	0.046	0.044	0.044	0.043
300	0.42	0.38	0.36	0.35	0.34	150	0.060	0.055	0.052	0.050	0.049
400	0.51	0.45	0.42	0.40	0.39	200	0.073	0.064	0.060	0.057	0.056
500	0.62	0.53	0.49	0.46	0.44	250	0.086	0.075	0.068	0.065	0.062
600	0.75	0.62	0.56	0.52	0.49	300	0.102	0.086	0.078	0.073	0.069
700	0.90	0.73	0.64	0.59	0.55	350	0.121	0.099	0.088	0.081	0.076

## Thermal Performance, ASTM C 680

Industrial Board Type	Thickness, in. (mm)	Operating Temperature, °F (°C)							
		450 (232)		600 (316)		750 (399)		900 (482)	
		HL	ST	HL	ST	HL	ST	HL	ST
1260	2 (51)	62	109						
1280	2 (51)	59	108						
1260	3 (76)			69	111				
1280	3 (76)			65	110				
1260	4 (102)					78	114		
1280	4 (102)					72	112		
1260	5 (127)							88	118
1280	5 (127)							79	115

The above table provides approximate heat loss values (HL), Btu/hr-ft², and Surface Temperature (ST), °F, for flat surfaces. Values are based on horizontal heat flow, vertical flat surface, 80°F ambient temperature, 8 mph wind speed, weathered aluminum jacket. To convert heat loss values to W/m², multiply values by 3.15. To convert surface temperatures, use the formula: °C = (°F-32)/1.8.

## Acoustical Performance, ASTM C 423

Type	Thickness, in. (mm)	Sound Absorption Coefficients, Hz							NRC
		125	250	500	1000	2000	4000		
1240	1.5 (38)	.13	.48	1.02	1.08	1.02	1.01	.90	
	2.0 (51)	.20	.61	1.07	1.06	1.04	1.07	.95	
	4.0 (102)	.88	1.14	1.17	1.08	1.06	1.10	1.10	
	6.0 (152)	1.32	1.14	1.11	1.09	1.06	1.07	1.10	
1260	1.5 (38)	.18	.62	1.08	1.08	1.03	1.07	.95	
	2.0 (51)	.25	.85	1.15	1.10	1.04	1.06	1.05	
	3.0 (76)	.80	1.07	1.11	.99	.98	.96	1.05	
	4.0 (102)	.99	1.01	1.10	1.03	1.03	1.05	1.05	
1280	1.5 (38)	.13	.64	1.08	1.08	1.04	1.07	.95	
	2.0 (76)	.32	.90	1.11	1.07	1.01	1.05	1.00	
	4.0 (102)	1.11	.91	1.07	1.03	1.06	1.07	1.00	

Values given are for design approximations only; production and test variabilities will alter results. Specific designs should be evaluated in end-use configurations. All tests were conducted in accordance with ASTM C 423, Mounting A (material placed against a solid backing).

## Application Recommendations

Owens Corning High Temperature Industrial Board Insulations can be installed directly on heated flat and curved surfaces by attaching with welded pins or studs. Unfaced insulations may be finished with sheet metal or metal mesh and insulating cement, then canvassed and painted.

Pins with speed washers or studs and nuts should be installed on 16" (400mm) spacing (max.) and not more than 4" (100mm) from the edge of the insulation. The insulation is normally impaled over the pins or studs and the enclosing sheet metal or metal mesh is secured to the same fasteners. Joints of the sheet metal finish are offset from joints of the insulation.

With faced insulation boards, cover pins and clips with vapor-sealing pressure-sensitive patches matching the FRK facing.

For temperatures over 400°F (204°C), good insulation practice suggests double layer application, regardless of insulation type. Single layer installation of any type of insulation material requires good workmanship to minimize heat loss and hot spots at insulation joints.

These insulations may be installed in either single or multiple layers at all temperatures up to 1200°F (649°C). In multiple layer applications, use faced insulations on outer layer only.



## OWENS CORNING WORLD HEADQUARTERS

ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO, USA 43659

1-800-GET-PINK  
www.owenscorning.com



# CITY OF PORTLAND, MAINE

Division of Building Inspections

## Original Receipt

March 20  

Received from Bougeois & Sons, LLC

Location of Work 966 Congress / 966 St John

Cost of Construction \$                      Building Fee \$                     

Permit Fee \$                      Site Fee \$                     

Certificate of Occupancy Fee \$                     

**Total:**                     

Building (IL)  Plumbing (15)  Electrical (12)  Site Plan (U2)

Other                                     

CBL: 064 A001

Check #: 1745 Total Collected 170.00

**No work is to be started until permit issued.**

**Please keep original receipt for you records.**

Taken by: Hayle