					DEDIA		• • • • • • • • • • • • • • • • • • •	7	
City of Portland, Maine	- Building or Use	Permit Application	n Permit No		Issue Date	11 1221			
389 Congress Street, 04101	Tel: (207) 874-8703	, Fax: (207) 874-871	6 05-	0358			030 C0	01001	
Location of Construction:	Owner Name:	Owner Name:		ess:	JUN	2 8 20	Phone:		
100 Commercial St	Soley Wharf L	Soley Wharf Llc		nercial St		- 0 -0			
Business Name:	Contractor Name	•	Contractor A	.ddress:	L		Phone		
n/a	HVAC Service	es, Inc.	73 Bradley Drive WGTOOF PORT ANS 44822						
Lessee/Buyer's Name	Phone:		Permit Type: Zone					Zone:	
n/a	n/a		HVAC						
Past Use:	Proposed Use:		Permit Fee: Cost of Work: CEO District:						
Commercial / Restaurant	Restaurant / In	stall natural gas	\$48	\$52,000	0.00	1			
	direct vent hea	ting system in the						PECTION:	
	basement.				Use Group:	Group: Type-			
				with ,			HUH 705		
			with						
Proposed Project Description:	I		- condition			Chi Danal			
Install natural gas direct vent h	eating system in the ba	sement.				alle			
		Action: Approved Approved w/Conditions Der			Denied				
			Signature: Date:						
Permit Taken By:	Date Applied For:		Zoning Approval						
gg	04/05/2005								
1.		Special Zone or Revie	ews	Zoning Appeal		I	Historic Preservation		
		Shoreland		Variance			Not in District or Landmar		
		Wetland		Miscellaneous			Does Not Require Review		
2. 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 		Flood Zone		Conditional Use			Requires Review		
		Cubdivision		Interpretation			Approved		
		Subdivision							
		.Site Plan	\wedge	Approved			Approved w/Conditions		
		MajjMmor/ MN	₽ □	Denied			Denied		
		late:	Date:			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

Fill IN AND S	Sign with Ink				
APPLICATION FOR PERMIT					
HEATING OR PO	WER EQUIPMENT				
	020 C. OOL				
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.					
The undersigned hereby applies for a permit to insta accordance with the Laws of Maine, the Building Code of th	Ill the following heating, cooking or power equipment in the City of Portland, and the following specifications:				
Location / CBL 100 COMMERCIAL ST PHU	Use of Building <u>Restauxa</u> tate <u>4/5/05</u>				
Name and address of owner of appliance <u>Scley What</u>	LLC. TOO COMMENCIAL SF?				
Installer's name and address HVAC SERVICES	TINC 200 854 LIED				
13 BIGAULY Pr. WRDIDIOURY MC	<u>09073</u> leiephone <u>2070077000</u>				
Location of appliance:	Type of Chimney:				
G Basement G Floor	Masonry Lined				
\Box Attic U Root	Factory built				
F V ADDE CIENTE					
Type of Fue: \Box	\Box Metal				
	Factory Built U.L. Listing #				
Appliance Name: (arrier Heat Dum DS	Direct Vent				
ILL Approved D Yes D No	Type PVC DEAT of AU				
	CITY OF PORTLAND ME				
Will appliance be installed in accordance with the manufacture's	Type of Fuel Tank				
installation instructions? Yes D No	□ Oil APR - 5 2005				
	du Gas				
IF <u>NO</u> Explain:	RECEIVED				
	Size of Tank NATURAL				
The <i>Type</i> of License of Installer:	Number of Tanks				
Master Plumber #					
O Solid Fuel #	Distance from Tank to Center of Flame feet.				
$\frac{1}{100} = \frac{1}{100} = \frac{1}$	Cost of Work: \$ 52,000,				
$\Box \operatorname{Gas} \# \operatorname{\underline{IN}} \Box \operatorname{Gas} \#$					
	Permit Fee: $\$$, $\forall \gamma \circ O$				
Approved	Approved with Conditions				
Fire:	See attached letter or requirement				
Ele.:	-				
Bldg.:					
	Inspector's Signature Date Approved				
Signature of Installer 100000 JUMPAN					
White - Inspection Yellow - File Pi	ink - Applicant's Gold - Assessor's Copy				

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REFERENCE Building permit # 04-1686

RALPH MANGLASS JR., P.E. 207-650-5135

111 LAKESIDE DRIVE WINDHAM, ME 04062

Mr. Paul Russell Restaurant Oolong 100 Commercial St. Portland, ME 04 **101**

Dear Mr. Russell,

At your request I have evaluated the ceilingjoists that are to support the Heat Pump units for the Restaurant Oolong space.

The smallest joist that will be used to support a unit was measured at 4.25" wide \times 13.5" deep. The joist was analyzed **as** supporting the entire weight of a unit (300#)at the midpoint rather than the actual arrangement which uses multiplejoists to support each unit, most near the ends of the joist.

StruCalc 6.0 was used for the analysis, incorporating the added weight of the 2" of lightweight concrete on the 2nd floor, and the joists were found to be adequate.

Attached is a printout of the results.

Thank you for the opportunity top be of service to you. Please call with any questions.

Sincerely aannoon a Ralph/Manglass(Jr. 756 5410 Brad 6C DEPT. OF OF

Floor Joist[2000 International Building Code (01 By: Helen C. Watts, P.E. , Helen Watts Engineering or Project: Restaurant Oolong - Location: Ceiling Joist w/HVAC unit	NDS)]Ver: 6.00.63): 04-15-2005 : 3:05:(09 PM	
4.25 IN x 13.5 IN x 24.0 FT @ 16 O.C. / #1 - Hem-Fir - Dry Use Section Adequate By: 1.2% Controlling Factor: Moment of Inertia / Dep	th Required 13.45 In		
Center Span Deflections: Dead Load: Live Load: Total Load:	DLD-Center= LLD-Center= TLD-Center=	0.22 0.57 0.79	IN IN = L/504 IN = L/364
Center Span Left End Reactions (Support A): Live Load: Dead Load: Total Load: Bearing Length Required (Beam only, support capacity not checked):	LL-Rxn-A= DL-Rxn-A= TL-Rxn-A= BL-A=	951 400 1351 0.78	LB LB IN
Center Span Right End Reactions (Support B): Live Load: Dead Load: Total Load: Bearing Length Required (Beam only, support capacity not checked):	LL-Rxn-B= DL-Rxn-B = TL-Rxn-B= BL-B =	951 400 1351 0.78	LB LB LB IN
Joist Data: Center Span Length:	L2=	24.0	FT
Live Load Deflect. Criteria: Total Load Deflect. Criteria:	Cd= L/ L/	1.00 480 360	
Uniform Floor Loading: Live Load: Dead Load: Total Load: Total Load Adjusted for Joist Spacing:	LL-2= DL-2= TL-2= wT-2=	50.0 25.0 75.0 100	PSF PSF PSF PLF
Partially Distributed Load Live Load: Dead Load: Load Start: Load End: Load Longth:	PDLL-2= PDDL-2= A-2= B-2= C-2=	113.0 0.0 11.0 13.0 2.0	PSF PSF FT FT FT
Properties For: #1- Hem-Fir Bending Stress: Shear Stress: Modulus of Elasticity: Stress Perpendicular to Grain:	Fb= Fv= E= Fc-perp=	1050 140 1300000 405	PSI PSI PSI PSI
Fb' (Tension):	Fb'=	1192	PSI
Adjustment Factors: Cd=1.00 Cf=0.99 Cr=1.15 Fv': Adjustment Factors: Cd=1.00	Fv'=	140	PSI
Design Requirements: Controlling Moment: 12.0 Ft from left support of span 2 (Center Span) Critical moment created by combining all dead loads and live loads	M=	8933	FT-LB
Controlling Shear: At a distance d from right support of span 2 (Center Span) Critical shear created by combining all dead loads and live loads or	V= span(s) 2	1255	LB
Comparisons With Required Sections: Section Modulus (Moment): Area (Shear):	Sreq= S= Area=	89.94 129.09 13.44	IN3 IN3 IN2
Moment of Inertia (Deflection):	A= Ireq= I=	57.38 861.34 871.38	IN2 IN4 IN4
	UIL DING INS	PECTION D, ME	





<u>Controlling Load Cases:</u> Shear: Critical shear created by combining all dead loads and live loads on span(s) 2 Moment: Critical moment created by combining all dead loads and live loads on span(s) 2 Deflection: Critical deflection created by combining all dead loads and live loads on span(s) 2

-

Dimensions

10



DCNE

Carrier

Physical data



01002

PHYSICAL DATA — AQUAZONE™ 50RHC,RVC006-060 UNITS

UNIT SORHC,RVC	006	009	012	010	8 024	030	es M
COMPRESSOR (1 each)		Rotary			Reciproce	ting	
FACTORY REFRIGERANT CHARGE R-22 VERTICAL (oz)	14	14	14	26	38	37	小 一 一 一 一 一 一 一 一 一 一 一 一 一 一
FACTORY REFRIGERANT CHARGE 1-22 HORIZONTAL (oz)		14	14	25	38	37	
PSC FAN MOTOR & BLOWER	PSC/3	PSC/A	PSC/3	PSC	/3 PSC/3	PSC/3	
Fan Motor (hp) Std, High Static	1/2 <u>5,</u> ~ .	V ₁₀ .	1/ ₁₀ , —	ν,	1/1. 3/1	3/4, 3/4	.i.
Blower Wheel Size (Dia x W) Std, High Static	5 × 5, —	<u>5 × 5, —</u>	6×5.—	Bx7	<u>8x7 9x7,9</u> ;	(7 9x7,10x8	-
WATER CONNECTION SIZE FPT — All Other		¹ /2	1/2		-14		- 1
HORIZONTAL Air Coll	1 7			1.			
Dimensions (H x W)	10 x 15	10 x 10	10 15	16 x	22 16 x 23	2 16 x 22	4
Total Face Area (114) Tube Size (111)	1.04 3/	1.04		2.4	4 6.44	2.44	
Fin Spacing (fpi)	12	12	12	12	12	12	
Number of Rows	10 10	10	3	2	3 1 1 15 Y	25 1 <u>16 vo</u> r	4
Corner** (lb)			10 4 10	1 '- '9		25 1 - 10125	
Left Front	37	38	42	66	70	74	
Len riear Blaht Front	24	23	25 26	42	43		4
Right Rear	19	20	21	33	34	- 35	_
VERTICAL							
Dimensions (H x W)	_	10 x 15	10 x 15	20 x 13	7.25 20 x 17.2	25 20 x 17.25	
Total Face Area (ft ²)	—	1.04	1.04	2.4	2,4	2.4	
Tube Size (in.)		² /n 12	12	3/a 1.2	*/ <u>8</u>	12	
Number of Rows		2	. 3	2	3	3	
Return Air Filter — 1-in. Throwaway (Qty — Size)	—	10 x 18	10 x 18	1 20	x 20 1 - 20 x	20 1 - 20 x 20	
Operating (Ib)	103	105	114	181	169	197	
Packaged (lb)	113	115	124	188	94	202	• 1
					\sim	\sim	,
UNIT SORNC.RVC	.036	844+	04	2	(048)		•
COMPRESSOR (1 each)	<u> </u>	F	eciprocating			ङलचा	-
FACTORY REFRIGERANT CHARGE R-22 VERTICAL (oz)	42	50	7 51		66	74	•
FACTORY REFRIGERANT CHARGE 8-22 HORIZONTAL (oz)	/41	50	51	1	66	7/	
PSC FAN MOTOR & BLOWER	bec/3	l Seco			PBC/3	PSC/3	1
Fan Motor (hp) Std, High Static	1/2, 3/4	3/2-	3/4,	%)	² / ₄ , 1	1, 1	
Blower Wheel Size (Dia x W) Std, High Static	9×8,10×8	9×8,-	9×8,1	Q × Ø	10 x 10, 12 x 10	11 x 10.11 x 10	
WATER CONNECTION 5/2E FP1 — All Other				1	· · · · · · · · · · · · · · · · · · ·	!	
HORIZONTAL Alr Coil							
Dimensions (H x W)	20 25	-/	26 ×	25	20 x 35	20 x 35	
Total Face Area (ft²)	3.4	1 1	3.4	7	4.85	4.86	
Fin Spacing (Ipl)	14	/=			12	12	1
Number of Hows	2/20	{ -		1	3	3	a.
Return Alr Filter — 1-In. Throwaway (Qty Size)	2 - 20 x 14	$ \langle - \rangle$	2 20	14	1 20 x 14	i — 20 x 14	Ż.
Corner (ib)	75			/	0.9	102	
Left Floar	44	<i>Z</i>	46		58	61	1
Right Front	47	- 1	50)	60	64 67	
VERTICAL		+					-
Air Call		1 /					Ĩ
Dimensions (H x W) Total Face Area (ft ²)	24 x 21.25 3.62	20 × 17.25	2 × 2	1.25	24 x 28.25 4 71	20 x 28 25 4 71	į
Tube Size (in.)	3/8	3/8			3/8	3/2	1
Fin Spacing (Ipi)	(1 <u>4</u>		12		12	12	
Return Air Filter 1-in Throwsway (Otv Size)		1. 2. 2		\mathcal{I}	1 14 x 24 &	1 — 14 x 24 E	÷.
Weight		1-2002	J 124	X 24	1 — 18 x 4	1 — 18 x 24	
Operating (ib)	203	207	218	3 I	253	(278)	. <u>1</u>
Packaged (lb)	209	212	224	4 <u> </u>		285	
LEGEND	ì				\smile	\smile	
PSC — Permanent Split Capacitor					Л	\mathbf{r}	9 19
*Size 005 available in SORHR unit only. tSize 041 available in SORVC unit only.					る	3	
**Approximate weights for SORHR units only.					- •	- - 11	
		1 1 .			KC LLAND		<u>ר אר אר אר</u> אר

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