

SHIP TIME _____
 DAY & DATE 5-14-05 5:01
 JOB # _____
 QUOTE / TASK # _____
 CLIENT Sprague Energy Corp
 BILLING ADDRESS _____



P.O. #/COD AMOUNT _____
 T&M CONTRACT CHANGE ORDER
 JOB LOCATION Wentworth
6014 Wentworth St.
 CONTACT: Richard W. Federman
 JOB DESCRIPTION: FEDERMAN BERT

Pump out CAT H Disuse
Separation, out fail

LABOR:	NAME	TITLE	PER DIEM	ST	OT	DT	COMMENTS:
	<u>Ben Hubbell</u>	<u>SUPERVISOR</u>					
		<u>FOREMAN</u>					
		<u>Eg. OPERATOR</u>					
	<u>Bob MacEachron</u>	<u>OPERATOR</u>					<u>change Prices of O-rings</u> <u>To first hole at everything</u> <u>But the was</u>
		<u>FIELD TECH</u>					
		<u>FIELD TECH</u>					
		<u>FIELD TECH</u>					

DISPOSAL:

SW Site

JOB COMPLETED

YES NO

DESTINATION	AMOUNT	MANIFEST #
LIQUID (BULK)	GALS.	
SOLID (BULK)	TONS/YDS.	
LIQUID (DRUMS)	AMT. GAL.	
SOLID (DRUMS)	# OF DRUMS AMT. GAL.	
LOADING TIME	START	END

EQUIPMENT:

QTY.	TYPE	FLEET #	# OF HRS	DAILY RATE
<u>1</u>	<u>PICK-UP TRUCK</u>	<u>8496</u>	<u>6</u>	
	<u>VACUUM TRAILER</u>			
	<u>TRACTOR</u>			
	<u>VACUUM S.T. TRUCK</u>			
	<u>BOX TRUCK</u>			
<u>1</u>	<u>VACTOR <u>Case</u></u>	<u>4130</u>	<u>6</u>	
	<u>COMPRESSOR</u>			
	<u>BACKHOE</u>			
	<u>BOBCAT</u>			
	<u>PACK TRUCK</u>			
	<u>METER TYPE:</u>			
	<u>COMMS PACKAGE</u>			
<u>1</u>	<u>Pressure Washer</u>		<u>6</u>	

QTY.	DESCRIPTION	NUMBER OF COMPLETE INITIAL PPE SETS	NUMBER OF EMPLOYEES IN PPE
	SPEED DRI		
	DRUM TYPE		
	DRUM TYPE		
	RAIN GEAR		
	POLY SHEETING ROLL		
	POLY BAG ROLL		
	SORBENT PADS BL		
	SORBENT BOOM EA		
	SORBENT BOOM BL		
	SORBENT SWEEP BL		
	SORBENT SHAPE (ON ROPE) BL		
	ROPE TYPE		
	DEGREASER WHAT TYPE?		
	DUCT TYPE		
	SSRASP		
	POLY LINER (ROLL OFF)		

QTY.	TYPE	DESTINATION

SUBCONTRACTORS:

NAME OF COMPANY	DESCRIPTION

Customer: Sprague Energy
Cambridge, Mass
 By: _____



Portland Water District
FROM SEBAGO LAKE TO CASCO BAY

May 18, 2005

Mr. Donald T. McElhinney, P.E., Vice President
Sebago Technics, Inc.
One Chabot Street
Westbrook, Maine 04098-1339

Subject: Merrill Marine Terminal, Portland, Maine

Dear Mr. McElhinney:

The District will be pleased to serve the expanded Merrill Marine Terminal from the existing water system operating in the area of Danforth and Commercial Streets. This area is supplied by our Sebago Lake system, which is a very high quality public water supply that is carefully monitored and protected from external contamination. This supply currently meets or exceeds all state and federal water quality regulations.

The public water system has ample capacity to supply the minor additional usage of the "Rubb VII" structure. Pressure in the main on Danforth Street is approximately 100 p.s.i. and the flow volume available for fire fighting exceeds 2500 gallons per minute at the Danforth Street / West Commercial Street mains. We cannot verify the water volume available from the private water system that services Merrill Marine Terminal.

We note that water pressures in excess of 80 p.s.i. are considered high for domestic use. The State Plumbing Code requires pressure reducing valves on water service pipes that feed domestic fixtures. Please review the Plumbing Code for additional information.

Please contact me if you need any further information for this project.

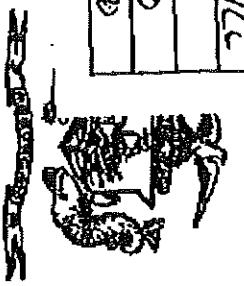
Yours truly,
Portland Water District

Jay Hewett
Jay C. Hewett, P.E.
Chief Engineer

Post-File Fax Note		7871	Date	5/18	3 of 1 pages
To	PD Merrill	From	DTM		
Co/Dept	Merrill Bldg	Co	STF		
Phone #	846-0100	Phone #	856-0277		
Fax #	502	Fax #	-2206		

225 DOUGLASS STREET P.O. Box 3553 PORTLAND, MAINE 04104-3553
PHONE: 207.774.5961 FAX: 207.774.8907 WEB: WWW.PWD.ORG

Post-Net brand fax transmittal memo 7671		# of pages	2
To	NAME <u>OBUSON</u>	From	<u>PD MERRILL</u>
Co.	<u>CAF</u>	Co.	<u>Merrill Ent</u>
Dept.		Phone #	<u>846 0100</u>
Fax #	<u>874-8716</u>	Fax #	<u>846 0100</u>

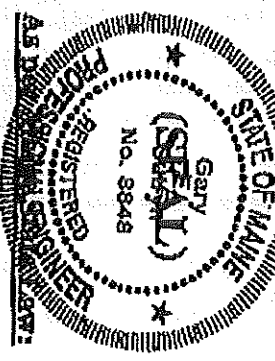


CITY OF PORTLAND
 BUILDING CODE CERTIFICATE
 389 Congress St., Room 315
 Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
 Department of Planning & Urban Development
 Division of Housing & Community Service

FROM: _____
 RE: Certificate of Design
 DATE: 5/23/05

These plans and / or specifications covering construction work on:
MERRILL MARINE TERMINAL, PUBB, III
SPRUCETREE PORTLAND, ME
 Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.



Signature: [Handwritten Signature]
 Title: CHIEF ENGINEER
 Firm: PUBB INC
 Address: SAVPOY, ME

\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Congress Street • Portland, Maine 04101 • (207) 874-8705 • FACSIMILE (207) 874-8716 • TTY (207) 874-8595

SENDING SERIAL 74624262021 85:41 5002/02/50

55' → proposed height

45' max height
structures exceeding forty-five (45) feet in height above grade shall be set back a minimum of one (1) foot from the exterior property line of the owner of the underlying property interest for each foot that the structure or cluster of structures exceeds forty-five (45) feet in height above grade.

10' → req. setback
15.5' to exterior property line
shown

3. No structure or cluster of structures exceeding forty-five (45) feet in height above grade may be located closer than one hundred fifty (150) feet from any other such structure or cluster of structures.

to closest

4. The cumulative width of the portion of structures exceeding forty-five (45) feet in height above grade shall not exceed more than thirty (30) percent of the average width of the lot as measured by a line drawn parallel to the water.

?

5. No structure shall exceed forty-five (45) feet in height above grade within the view corridors established by the projection of the street right-of-way lines of Vaughn Street or Emery Street.

N/A

6. For purposes of this section only, moveable elements such as cranes and gantries, and connection devices such as conveyors or bridges shall not be subject to the space and bulk requirements, but shall be subject to a determination by the Federal Aviation Administration that the location of such equipment will not create a hazard to navigation. Other rooftop appurtenances shall not exceed the maximum height limits set forth in this section.

N/A

7. The applicant must provide a determination from the Federal Aviation Administration that structures and equipment will not exceed the applicable height guidelines for the runway approach and will not create a hazard to available airspace. Such a determination shall

shown

be accepted as conclusive evidence that the proposed development will not create a hazard.

8. Accessory uses in structures which exceed forty-five (45) feet in height above grade shall not be located higher than forty-five (45) feet within the structure.

(Ord. No. 168-93, § 2, 1-4-93)

Sec. 14-320.3. Performance standards.

All uses in the waterfront port development zone shall comply with the following standards:

- (1) **Outdoor storage of materials:** Outdoor storage of commodities and materials accessory to normal conduct of business, except pilings and/or cranes, shall be permitted to a maximum height of forty-five (45) feet, and such materials shall be entirely contained, including runoff contaminants and residual material, within a designated area within the lot boundaries.

(2) Noise:

- a. The level of sound, measured by a sound level meter with frequency weighting network (manufactured according to standards prescribed by the American National Standards Institute, Inc.), inherently and recurrently generated within the waterfront port development zone between the hours of 7:00 p.m. and 7:00 a.m. from industrial facilities or operation commenced on or after July 1, 1988, shall not exceed fifty-five (55) decibels on the A scale at or within the boundaries of any residential zone, except for sound from construction activities, sound from traffic on public streets, sound from temporary activities such as festivals, and sound created as a result of, or relating to, an emergency, including sound from emergency warning signal devices.
- b. In measuring sound levels under this section, sounds with a continuous duration of less than

We Cover The World.®



BUILDING SYSTEMS

RUBB, INC.

P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2947
E-mail: info@rubbusa.com

June 20, 2005

Mr. Mike Nugent
Inspection Services Manager
City of Portland
389 Congress Street
Portland, ME 04101

By Telefax: 207-874-8716

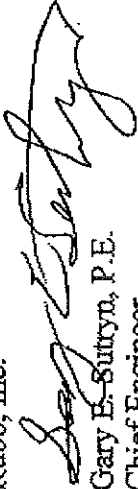
Re: Merrill VII

Dear Mike:

Here are the NFPA 701 test results for the PVC covering material used on the structure. Also included are the specification sheets for the covering material.

The Merrill VII structure is a newsprint conditioning facility that will be kept at approximately 55° F to 60 ° F. It will be fully insulated with R-19 insulation.

Sincerely,
Rubb, Inc.


Gary E. Sutryn, P.E.
Chief Engineer



AN INTERNATIONAL COMPANY

RUBB BUILDINGS LTD.
Tel: +44 181 482 2311
Fax: +44 181 482 2516

RUBB MOTOR AS
Tel: +47 55 315032
Fax: +47 55 317510





High Performance 8028 Architectural Fabric

8028 Architectural Fabric

Standard

Metric

Base Type
Fabric Weight

Finished Coated Weight

ASIM D751

Tongue Tear

ASIM D751

Trapezoid Tear

ASIM D4533

Grab Tensile

ASIM D751

Strip Tensile-ASIM D751

Procedure B

Adhesion

ASIM D751 Dielectric Weld

Hydrostatic Resistance

ASIM D751 Procedure A

Dead Load

MIL-T-52983E (modified)

Para.4.5.2.19

Low Temperature ASTM D2136 LTC

1/8" mandrel, 4 hrs.

Flame Resistance

Polyester
7.5 oz/yd

28 oz/yd

+2/-1 oz/yd

8"x10" sample @ 12 in/min.

275/275 lbf

85/85 lbf

700/700 lbf

515/515 lbf/in

10 lbf/in

500 psi

2 in seam, 4 hrs, 1 in strip

266 lbf @ Room temp

133 lbf @ 160° F

Pass -40° F

Pass -67° F

Meets California fire marshal requirements, UL214, NFPA 701, and FIMS 191
method 9903 - 2 second flameout
ASTM E84 - flame spread index <25, smoke development rating <450

Polyester
257 g/m

950 g/m

+70/-35 g/m

20.3 cm x 25.4 cm sample @ 30.5 cm/min.

1223/1223 N

378/378 N

3115/3115 N

458/458 daN/5 cm

9 daN/5 cm

3.45 MPa

5 cm seam, 4 hrs, 2.5 cm strip

1183 N @ Room temp

591 N @ 71°C

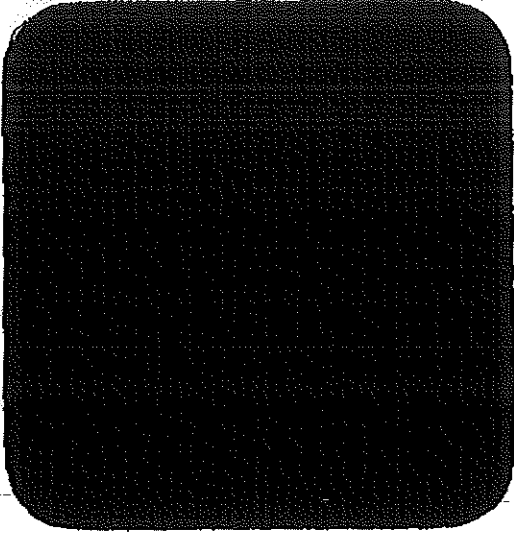
Pass -40° C

Pass -55° C

Protan Quality 482/782 28 oz/sy FR PVC Coated Polyester

Technical Specifications

Base Type	Polyester, 1100 dtex
Construction:	Woven
Base Fabric Weight:	6.9 oz/sy
Coated Weight:	28 oz/sy
Tongue Tear:	180/180 lbs/in
Trapezoid Tear:	80/70 lbs
Grab Tensile:	690/620 lbs/in
Strip Tensile:	340/335 lbs/in
Adhesion (Seam Peel):	15 lb/in
Hydrostatic Resistance:	ASTM D751 - Procedure A Over 500 PSI
Low Temperature (-40° F):	ASTM D2136 Pass
Flame Resistance:	NFPA 701 Pass



Quality 482 is provided with a matte finish and quality 782 has a lacquered finish. Standard roll length is 150 meters however the material can be provided in roll lengths from 50m to 500m upon request. Roll goods can normally be slit to custom widths for a nominal charge.

Technical data is based upon average tested production values less one standard deviation and is believed to be representative of the performance characteristics of the material. Specifications and characteristics are subject to change without notice. No obligation or liability whatsoever is assumed in connection with this information. The end user is encouraged to undertake performance testing of their choice to determine the suitability of this material for its intended end use.

FEB-23-98 FRI 16:53

RUBB

FAX NO. 2073242347

P.17



**NFPA 701 - 1989 Fire Tests For
FLAME-RESISTANT TEXTILES AND FILMS**

Prepared for: Rubb Building Systems

Project No.: 91985

Client No.: 1079

Test Date: 7/18/91

Test Engineer: Dingyi Huang

Specimen ID: 8028 - White Translucent Tedlar

Description: 0.028 inch thick white plastic sheet

Fabric Weight: 32 oz/sq.yd.

Conditioning: 140-145°F for greater than 1 h and less than 1-1/2 h only.

Method Used: SMALL SCALE

TEST RESULTS

Specimen	Direction	Afterflame Duration (sec)	Flaming of Drips (sec)	Char Length (in.)
1	Machine	0.0	0.0	2.88
2	Machine	2.0	0.0	2.00
3	Machine	0.0	0.0	2.75
4	Machine	0.0	0.0	2.00
5	Machine	2.0	0.0	2.75
6	Cross	1.0	0.0	3.00
7	Cross	0.0	0.0	8.00
8	Cross	0.0	0.0	8.25
9	Cross	0.0	0.0	3.00
10	Cross	2.0	0.0	3.00
Average		0.7	0.0	2.76

Afterflame requirements (None > 2 Sec.): **PASSED**

Flaming Drips requirements (None Allowed): **PASSED**

Char Length requirements (None > 4.5, Average ≤ 3.5): **PASSED**

Dingyi Huang
Dingyi Huang, Test Engineer

7/18/91
Date

6888 Alamo Downs Parkway
San Antonio, Texas 78238
512 / 647-5253
TELEX: 810240828 SWCS LIQ
FAX: 512 / 647-0815



**NFPA 701 - 1996 FIRE TESTS FOR
FLAME-RESISTANT TEXTILES AND FILMS
TEST 2**

Client: Rubb, Inc.
Address: Sanford Airport
Sanford, ME 04073

Received Date: September 7, 1999
Test Date: September 20, 1999
Report Date: September 21, 1999

Project No: 10790-105539

Sample Identification: Protan Quality 480

Description: PVC Coated Polyester

Sample Preparation: Tested as received.

Specimen Wt.: 27.77 ounces /sq. yd.

SUMMARY OF TEST PROCEDURE

10 specimens of material 4.9 in. x 47.25 in. are cut with their long dimension parallel to the length direction ("with" machine). The test specimens are conditioned to 220-225°F (105-108°C) for not less than one hour and not more than 3 hours. Specimens are removed from the oven one at a time and tested immediately. The specimens are supported with clips in a three-sided vertical column and exposed to an 11" flame for two minutes. The flame impinges approximately 7 inches on the specimen.

TEST CRITERIA

No specimen shall continue flaming for more than two seconds. Length of char shall not exceed 17.13 inches from the bottom edge of the specimen. No flaming on floor of apparatus is allowed for longer than two seconds.

Omega Point Laboratories, Inc.
16015 Shady Falls Road
Elmendorf, Texas 78112-9784
210-635-8100 / FAX: 210-635-8101 / 800-966-5253
www.opl.com / e-mail: moreinfo@opl.com

Project No. 10790-105539
Rubb, Inc.

September 21, 1999
Page 2

TEST RESULTS

Specimen	Afterflame Duration (sec)	Floor Flaming (sec)	Char Length (in.)
1	0	0	5.13
2	0	0	5.06
3	0	0	6.19
4	0	0	7.44
5	0	0	8.50
6	1	0	11.81
7	0	0	8.37
8	0	0	10.31
9	0	0	10.00
10	0	0	7.31
Average	0.1	0	8.01

Afterflame requirements (None > 2 Sec.): **PASSED**
 Flaming Drips requirements (None > 2 Sec.): **PASSED**
 Char Length requirements (None > 17.13 in. from bottom edge): **PASSED**

THIS TEST SPECIMEN PASSED THE NFPA 701 TEST 2 FIRE TEST

This report is for the exclusive use of the client named herein. Omega Point Laboratories, Inc. authorizes the client to reproduce this report only if reproduced in its entirety. The test specimen identification is as provided by the client and Omega Point Laboratories, Inc. accepts no responsibility for any inaccuracies therein. The description of the test procedure, as well as the observations and results obtained, contained herein are true and accurate within the limits of sound engineering practice. These results are valid only for the specimens tested and may not represent the performance of other specimens from the same or other production lots. This report does not imply certification of the product by Omega Point Laboratories, Inc. Any use of the Omega Point Laboratories name, any abbreviation thereof or any logo, mark, or symbol therefore, for advertising material must be approved in writing in advance by Omega Point Laboratories, Inc. The client must have entered into and be actively participating in a Listing & Follow-up Service program. Products must bear labels with the Omega Point Laboratories Certification Mark to demonstrate acceptance by Omega Point Laboratories, Inc. into the Listing program.

This report contains a total of two pages.

Sub Rand

Servando Romo
Fire Test Technologist

Reviewed and approved:

Ernst L. Schmidt

Ernst L. Schmidt, Jr.
Manager, Small Scale Testing

9-21-99
Date

9-21-99
Date

OMEGA POINT
LABORATORIES



198 MAIN STREET
 GORHAM, MAINE 04038
 Fax: 207-839-8035

FAX TRANSMISSION COVER SHEET

Date: 6/24/05 From: JC for Roger G.
 Attn. To: Mike Nugent Fax No. 874-8716 (8703)
 Co./Org.: Portland CF No. of Pgs: 2 (Including Cover Page)
 Re: Rebb VII Personnel Door Stairs

Please Call 207-839-8085 if you have any problems receiving this fax.

This message is intended only for the use of the individual or entity to which it is addressed or copied (below), and may contain information that is privileged and confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone.

Special instructions or message:

Revised as requested.

PLEASE REVIEW AND CALL IF YOU HAVE ANY QUESTIONS/PROBLEMS. THANK YOU.

Copied: 407
C.C. to P.D. 846-0100

TYPE:

DESCRIPTION

Dominated by flat surfaces and strong lines that emphasize the principles of architecture, the **IMPACT** Trapezoid cutoff wall luminaire make an ideal complement to site design. U.L. Listed and CSA Certified for wet locations in down mount applications and damp locations in up mounted applications.

APPLICATION

The **IMPACT**'s rugged die-cast construction and full cutoff classified optics perfectly provide facade and security lighting needs for light restricted zones surrounding schools, office complexes, apartments, and recreational facilities.

CATALOG #:

COOPER LIGHTING—LUMARK®

SPECIFICATION FEATURES

A...Housing

The housing is a two-piece design of die-cast aluminum for precise control of tolerances and repeatability.

B...Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" J-Box or wall with "Hook-N-Lock" mechanism for quick installation. Secured with two (2) captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom.

C...Optical Modules

All optical modules utilize high performance 85% reflective sheet. Strong Type II optical module is standard.

D...Ballast

HID luminaires supplied with high power factor ballast with Class H insulation. Minimum starting temperatures are -40°C (-40°F) for HPS and -30°C (-20°F) for MH. Compact

Fluorescent luminaires feature program start, high efficient multi-voltage 50/60Hz ballast with -18°C (0°F) minimum starting.

E...Door

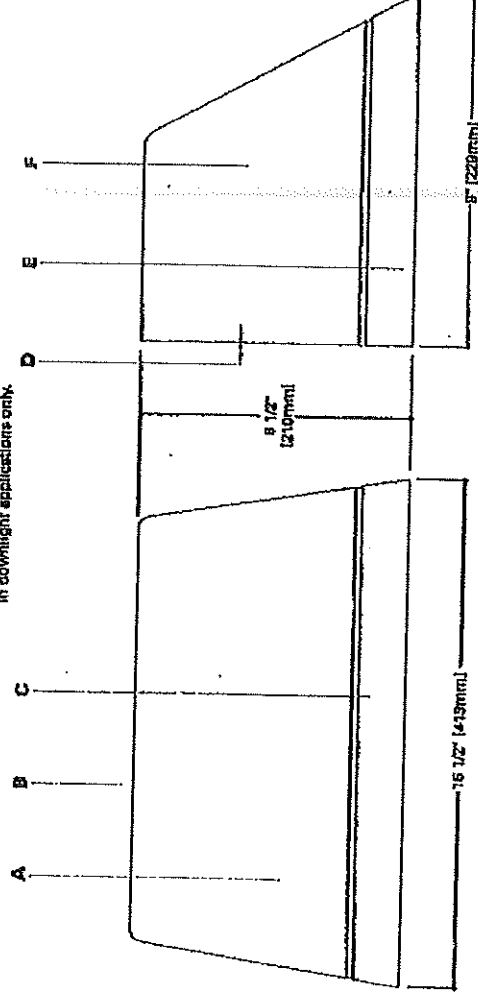
Die-cast door features, 1/8" heat- and impact-resistant clear tempered glass lens mounted with internal plated steel clips and sealed with EPDM gasketing. Hinged door captured in place via two (2) captive fasteners.

F...Finish

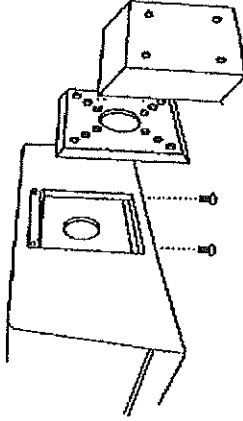
Durable polyester powder coat finish. Standard color is bronze. Optional white, black and silver colors available. Other finish colors available. Consult your Cooper Lighting Representative concerning special color requirements.



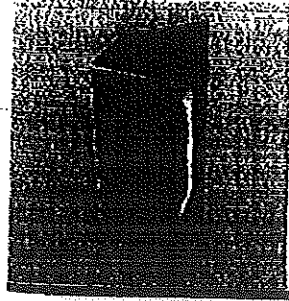
DARK SKY FRIENDLY
In downlight applications only.



HOOK-N-LOCK MOUNTING (Mounting attachment included. J-Box not included.)



COOPER LIGHTING



IP IMPACT TRAPEZOID

5 0 - 1 7 5 W
High Pressure Sodium
Metal Halide

2 6 - 5 2 W
Compact Fluorescent

— FULL CUTOFF
— WALL MOUNT
— LUMINAIRE

IMPACT
Carefree wall luminaires

TECHNICAL DATA
High Fluorescence Ballast Input Watts
60W MH-HPF (72 Watts)
90W MH-HPF (125 Watts)
70W HPS HPF (81 Watts)
70W MH-HPF (89 Watts)
100W HPS HPF (130 Watts)
100W MH-HPF (125 Watts)
180W HPS HPF (190 Watts)
180W MH-HPF (185 Watts)
CWA Ballast Input Watts
170W MH-HPF (210 Watts)

ENERGY DATA

Electrode Ballast Input Watts
26W PL-HPF (28 Watts)
32W PL-HPF (35 Watts)
42W PL-HPF (45 Watts)
82W PL-HPF (85 Watts)

SHIPPING DATA

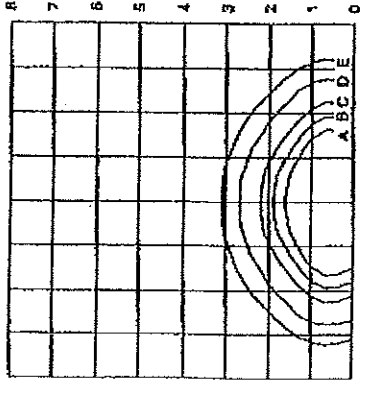
Approximate Net Weight
10 lbs. (4.5 kg.)

ADN0400802



IP IMPACT TRAPEZOID

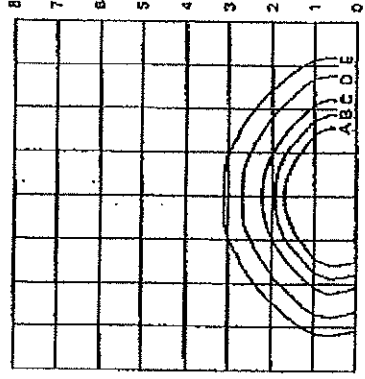
PHOTOMETRICS



MHIP-T-175-MT-LL

175-Watt MH

14,000-Lumen Clear Lamp



MHIP-T-150-MT-LL

150-Watt HPS

15,000-Lumen Clear Lamp

Footcandle Table

Select mounting height and read across for footcandle values of each footcandle line. Distance in plot of mounting height.

Mounting Height	Footcandle Values for footcandle Lines				
	A	B	C	D	E
10'	1.50	2.25	1.13	0.65	0.23
15'	2.00	1.00	0.50	0.20	0.10
20'	1.12	0.56	0.28	0.11	0.05

ORDERING INFORMATION

SAMPLE NUMBER: MHIP-T-150-MT-LL

Lamp Type
MH=Mercury Halide
HPS=High Pressure Sodium
PL=Compact Fluorescent

IP
Fixture Type =
IP=IMPACT

T
Fixture Shape =
T=Trapezoid

Lamp Wattage
HID =
50=50W*
70=70W*
100=100W
150=150W
175=175W*
Compact
E=Emergency
20/32/40=20, 32, or 42W
50=50W*

Voltage*
120V
208V
240V
277V
340V
480V
MT=Multi-Tap*
TT=Tribo-Tap*
E=Electronic Ballast*

Options (add as suffix) **
Q=Quartz Halide *
EM=Emergency Quartz Retrofit with Time Delay Relay *
EM/SC=Emergency Separate Circuit *
EM/SC/ITM=Emergency Separate Circuit (ITM) *
EM40=Emergency CF, Battery Pack *
F1=Single Fuse—120, 277 or 347V (Must Specify Voltage)
F2=Double Fuse—208 or 240V (Must Specify Voltage)
PE=Pushon Photocontrol (Must Specify Voltage)
LPL1=10% Uplight
LL=Ballast Included (Must Specify Wattage on PL) *
BK=Black
SW=Silver
WH=White

STOCK SAMPLE NUMBER (Lamp Included)

SAMPLE NUMBER: MHIT17

Lamp Type
HP=High Pressure Sodium
MH=Metal Halide

IT
Fixture Type =
IT=IMPACT
Trapezoid

Lamp Wattage
10=100W
15=150W
17=175W

NOTES: Options not available with some products. Order Accessories as separate items for field installation. Refer to standard ordering information to add options and accessories.

NOTES: 1. All HID lamps are medium-base. 2. Available only in 120, 277V and Quad-Tap. 3. Not available in 480V. 4. Metal Halide concentration only. 5. 20/32/40 watt lamps only. 6. HID products also available in non-US voltage available for international markets. Consult your Cooper Lighting Representative for availability and ordering information. 7. Dual-Tap ballast are 120/277V wired 277V. 8. MHIT=Tap ballast and 120/208/240/277V wired 277V. 9. Tribo-Tap ballast are 120/277/347V wired 347V. 10. Supplied with 120V through 277V 50/60Hz for Current Photocontrol. 11. Must be listed in the order shown and separated by a dash. 12. The power might need to cycle and allow HID lamp to cool in warm climates. Available for 70 and 100W HID lamps only. 13. Supplied with 17V B+ pin socket for connection to emergency battery pack (supplied by client). The MHIT appears up to a 35W METI lamp. 14. Cold weather battery pack will operate up to 42W CF lamp for 50 min. 15. Lamp is shipped separate from luminaire. Lamp is Cooper designed product based on luminaire requirements. Specified lamps must be ordered as a separate item item. 16. Painted bronze. Supplied with lamp and Multi-Tap HPS ballast wired 277V. 17. Specifications and dimensions subject to change without notice. 18. Products also available in non-US voltages and frequencies for international markets. 19. Consult your Cooper Lighting Representative for availability and ordering information.

From: Marge Schmuckal
To: William Needleman
Date: Fri, Jun 3, 2005 10:44 AM
Subject: 601 Danforth St

Bill,

Has this site plan been approved yet? PD is coming in for his building permit on this. I need the stamped approved site plan from you. Thanks,
Marge

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
Zoning Copy

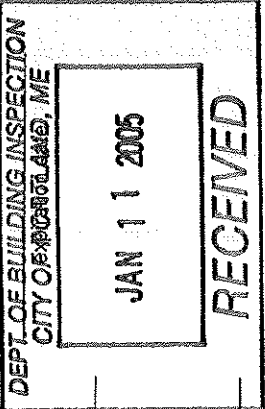
Merrill Industries Inc
Applicant
114 Eben Hill Road, Yarmouth, ME 04096
Applicant's Mailing Address
Consultant/Agent
Applicant Ph: (207) 846-0100 Agent Fax:
Applicant or Agent Daytime Telephone, Fax
601 - 601 Danforth St, Portland, Maine
Address of Proposed Site
072 A003001
Merrill Marine Terminal
Project Name/Description

Proposed Development (check all that apply): New Building Building Addition Change Of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Parking Lot
Assessor's Reference: Chart-Block-Lot
56,100 s.f.
WD
Zoning

Check Review Required:
 Site Plan (major/minor) Subdivision # of lots PAD Review 14-403 Streets Review
 Flood Hazard Shoreland Historic Preservation DEP Local Certification
 Zoning Conditional Use (ZBA/PB) Zoning Variance Other Other (specify)
Fees Paid: Site Pla \$4,000.00 Subdivision _____ Engineer Review _____ Date 1/10/2005

Zoning Approval Status:
 Approved Approved w/Conditions See Attached Denied Not Required
Approval Date _____ Approval Expiration _____ Extension to _____
 Condition Compliance _____ signature _____ date _____
Reviewer Monox S. Smap
only ASheet - No Attachments what so ever

Performance Guarantee Required* Not Required
* No building permit may be issued until a performance guarantee has been submitted as indicated below
 Performance Guarantee Accepted _____ date _____ amount _____ expiration date _____
 Inspection Fee Paid _____ date _____ amount _____
 Building Permit Issue _____ date _____ amount _____
 Performance Guarantee Reduced _____ date _____ remaining balance _____ signature _____
 Temporary Certificate of Occupancy _____ date _____ Conditions (See Attached) _____
 Final Inspection _____ date _____ signature _____
 Certificate Of Occupancy _____ date _____ signature _____
 Performance Guarantee Released _____ date _____
 Defect Guarantee Submitted _____ submitted date _____ amount _____
 Defect Guarantee Released _____ date _____ signature _____ expiration date _____



From: Marge Schmuckal
To: William Needleman
Date: Tue, Feb 8, 2005 10:40 AM
Subject: Merrill Rubb VII building

Bill,

This morning P.D. Merrill dropped off his final plan showing building height for the newly proposed RUBB building. It is meeting the 45 foot building height. Because it is meeting the 45 foot building height, there are no further restrictive dimensional requirements on his building, nor further setback requirements.

Marge Schmuckal
Zoning Administrator

We Cover The World.®



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

June 20, 2005

Mr. Mike Nugent
Inspection Services Manager
City of Portland
389 Congress Street
Portland, ME 04101

By Telefax: 207-874-8716

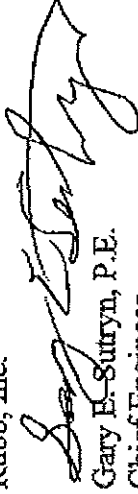
Re: Merrill VII

Dear Mike:

Here are the NFPA 701 test results for the PVC covering material used on the structure. Also included are the specification sheets for the covering material.

The Merrill VII structure is a newsprint conditioning facility that will be kept at approximately 55° F to 60 ° F. It will be fully insulated with R-19 insulation.

Sincerely,
Rubb, Inc.


Gary H. Sutryn, P.E.
Chief Engineer



AN INTERNATIONAL COMPANY

RUBB BUILDINGS LTD.
Tel: +44 191 482 2211
Fax: +44 191 482 2516

RUBB MOTOR AS
Tel: +47 55 913032
Fax: +47 55 317510





High Performance 8028 Architectural Fabric

8028 Architectural Fabric

Standard

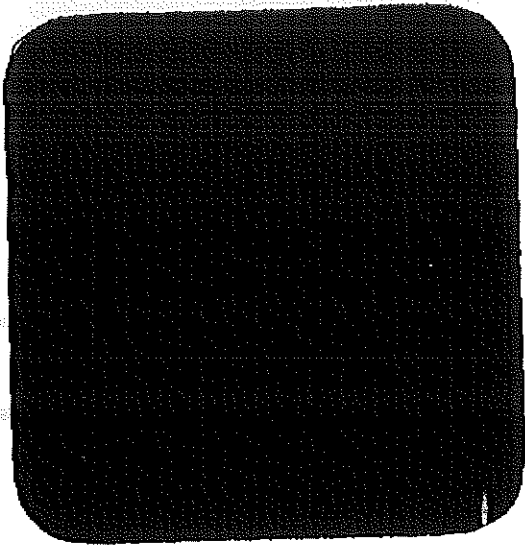
Metric

	Standard	Metric
Base-Type Fabric-Weight	Polyester 7.5 oz/yd	Polyester 254 g/m
Finished Coated Weight ASTM D751	28 oz/yd +2/-1 oz/yd	950 g/m +70/-35 g/m
Tongue Tear ASTM D751	8'x10' sample @ 12 in/min 275/275 lbf	20.3 cm x 25.4 cm sample @ 30.5 cm/min 1223/1223 N
Trapezoid Tear ASTM D4533	85/85 lbf	378/378 N
Grab Tensile ASTM D751	700/700 lbf	3115/3115 N
Strip Tensile ASTM D751 Procedure B	515/515 lbf/in	458/458 daN/5 cm
Adhesion ASTM D751 Dielectric Weld	10 lbf/in	9 daN/5 cm
Hydrostatic Resistance ASTM D751 Procedure A	500 psi	3.45 MPa
Dead Load MIL-T-52983E (modified) Para.4.5.2.19	2 in seam, 4 hrs, 1 in strip 266 lbf @ Room temp. 133 lbf @ 160° F	5 cm seam, 4 hrs, 2.5 cm strip 1183 N @ Room temp. 591 N @ 71°C
Low Temperature 1/8" mandrel, 4 hrs.	Pass -40° F Pass -67° F	Pass -40° C Pass -55° C
Flame Resistance	Meets California fire marshal requirements, UL214, NEPA 701, and FIMS 191 method 5903 - 2 second flameout ASTM E84 - flame spread index <25, smoke development rating <450	

Protan Quality 482/782 28 oz/sy FR PVC Coated Polyester

Technical Specifications

Base Type	Polyester, 1100 dtex
Construction:	Woven
Base Fabric Weight:	6.9 oz/sy
Coated Weight:	ASTM D751 28 oz/sy
Tongue Tear:	ASTM D2261 180/180 lbs/in
Trapezoid Tear:	ASTM D5733 80/70 lbs
Grab Tensile:	ASTM D751 690/620 lbs/in
Strip Tensile:	ASTM D5035 340/335 lbs/in
Adhesion (Seam Peel):	ASTM D751 15 lb/in
Hydrostatic Resistance:	ASTM D751 - Procedure A Over 500 PSI
Low Temperature (-40° F):	ASTM D2136 Pass
Flame Resistance:	NFPA 701 Pass



Quality 482 is provided with a matte finish and quality 782 has a lacquered finish. Standard roll length is 150 meters however the material can be provided in roll lengths from 50m to 500m upon request. Roll goods can normally be slit to custom widths for a nominal charge.

Technical data is based upon average tested production values less one standard deviation and is believed to be representative of the performance characteristics of the material. Specifications and characteristics are subject to change without notice. No obligation or liability whatsoever is assumed in connection with this information. The end user is encouraged to undertake performance testing of their choice to determine the suitability of this material for its intended end use.

FEB-23-86 FRI 16:53

RUBB

FAX NO. 2073242347

P.17



**NFPA 701 - 1989 Fire Tests For
FLAME-RESISTANT TEXTILES AND FILMS**

Prepared for: Rubb Building Systems

Project No.: 91985

Client No.: 1079

Test Date: 7/18/91

Test Engineer: Dingyi Huang

Specimen ID: 8028 - White Translucent Tedlar
 Description: 0.028 inch thick white plastic sheet
 Fabric Weight: 32 oz/sq.yd.
 Conditioning: 140-145°F for greater than 1 h and less than 1-1/2 h only.
 Method Used: SMALL SCALE

TEST RESULTS

Specimen	Direction	Afterflame Duration (sec)	Flaming of Drips (sec)	Char Length (in.)
1	Machine	0.0	0.0	2.88
2	Machine	2.0	0.0	2.00
3	Machine	0.0	0.0	2.75
4	Machine	0.0	0.0	2.00
5	Machine	2.0	0.0	2.75
6	Cross	1.0	0.0	3.00
7	Cross	0.0	0.0	3.00
8	Cross	0.0	0.0	3.25
9	Cross	0.0	0.0	3.00
10	Cross	2.0	0.0	3.00
Average		0.7	0.0	2.76

Afterflame requirements (None > 2 Sec.): **PASSED**

Flaming Drips requirements (None Allowed): **PASSED**

Char Length requirements (None > 4.5, Average ≤ 3.5): **PASSED**

Dingyi Huang
 Dingyi Huang, Test Engineer

7/18/91
 Date

6868 Alamo Downs Parkway
 San Antonio, Texas 78238
 512 / 647-5253
 TELEX: 9102400828 SWCS UG
 FAX: 512 / 647-0615



**NFPA 701 - 1996 FIRE TESTS FOR
FLAME-RESISTANT TEXTILES AND FILMS
TEST 2**

Client: Rubb, Inc.
Address: Sanford Airport
Sanford, ME 04073

Received Date: September 7, 1999
Test Date: September 20, 1999
Report Date: September 21, 1999

Project No: 10790-105539

Sample Identification: Protan Quality 480

Description: PVC Coated Polyester

Sample Preparation: Tested as received.

Specimen Wt.: 27.77 ounces /sq. yd.

SUMMARY OF TEST PROCEDURE

10 specimens of material 4.9 in. x 47.25 in. are cut with their long dimension parallel to the length direction ("with" machine). The test specimens are conditioned to 220-225°F (105-108°C) for not less than one hour and not more than 3 hours. Specimens are removed from the oven one at a time and tested immediately. The specimens are supported with clips in a three-sided vertical column and exposed to an 11" flame for two minutes. The flame impinges approximately 7 inches on the specimen.

TEST CRITERIA

No specimen shall continue flaming for more than two seconds. Length of char shall not exceed 17.13 inches from the bottom edge of the specimen. No flaming on floor of apparatus is allowed for longer than two seconds.

Omega Point Laboratories, Inc.
16015 Shady Falls Road
Elmendorf, Texas 78112-9784
210-635-8100 / FAX: 210-635-8101 / 800-966-5253
www.opl.com / e-mail: moreinfo@opl.com

The following table shows the results of the survey conducted in the year 2000. The data is presented in a tabular format, with columns representing different categories and rows representing the number of respondents for each category.

Category	Number of Respondents
Category 1	15
Category 2	20
Category 3	10
Category 4	5
Category 5	3
Category 6	2
Category 7	1
Category 8	1
Category 9	1
Category 10	1
Category 11	1
Category 12	1
Category 13	1
Category 14	1
Category 15	1
Category 16	1
Category 17	1
Category 18	1
Category 19	1
Category 20	1

The following table shows the results of the survey conducted in the year 2001. The data is presented in a tabular format, with columns representing different categories and rows representing the number of respondents for each category.

Category	Number of Respondents
Category 1	18
Category 2	22
Category 3	12
Category 4	6
Category 5	3
Category 6	2
Category 7	1
Category 8	1
Category 9	1
Category 10	1
Category 11	1
Category 12	1
Category 13	1
Category 14	1
Category 15	1
Category 16	1
Category 17	1
Category 18	1
Category 19	1
Category 20	1

The following table shows the results of the survey conducted in the year 2002. The data is presented in a tabular format, with columns representing different categories and rows representing the number of respondents for each category.

Category	Number of Respondents
Category 1	20
Category 2	25
Category 3	15
Category 4	8
Category 5	4
Category 6	2
Category 7	1
Category 8	1
Category 9	1
Category 10	1
Category 11	1
Category 12	1
Category 13	1
Category 14	1
Category 15	1
Category 16	1
Category 17	1
Category 18	1
Category 19	1
Category 20	1

The following table shows the results of the survey conducted in the year 2003. The data is presented in a tabular format, with columns representing different categories and rows representing the number of respondents for each category.

Category	Number of Respondents
Category 1	22
Category 2	28
Category 3	18
Category 4	10
Category 5	5
Category 6	3
Category 7	1
Category 8	1
Category 9	1
Category 10	1
Category 11	1
Category 12	1
Category 13	1
Category 14	1
Category 15	1
Category 16	1
Category 17	1
Category 18	1
Category 19	1
Category 20	1

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Location of Construction: 601 DANFORTH ST	Owner Name: MERRILL INDUSTRIES INC	Owner Address: 601 DANFORTH ST	Phone:
Business Name:	Contractor Name: Cianbro Corp.	Contractor Address: 328 W. Commercial Street Portland	Phone (207) 773-5852
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	

2) Plans for the exterior stairs must be submitted and approved prior to installation.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Cptn Greg Cass **Approval Date:** 06/06/2005
Note: **Ok to Issue:**

- 1) Flow test private hydrant to ensure proper fire flow.
- 2) To maintain access for fire apparatus at all times
- 3) Structure to comply with Chapter 42 "storage occupancies" of NFPA 101

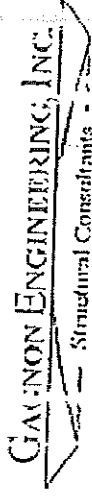
Dept: Planning **Status:** Approved with Conditions **Reviewer:** William B. Needelman **Approval Date:** 02/08/2005
Note: Site Plan approval conditions met, but \$300 site inspection fee needed prior to building permit. WBN 6-16-0Ok to Issue:

- 1)
 - i. That the applicant provides a water capacity letter prior to issuance of a building permit.
 - ii. That the applicant contributes \$5000 to the Portland Tree Trust in lieu of on-site landscaping prior to issuance of a building permit.
 - iii. That the applicant provides evidence that the existing vortechmics unit has been inspected, cleaned and maintained per manufacturer's specifications prior to occupancy of the warehouse.
 - iv. That the applicant provides revised lighting fixtures for Planning Authority review and approval.
 - v. That the applicant receive approval or waiver from the Maine Department of Environmental Protection for grading and construction at the water's edge.

Comments:

5/20/2005-ldobson: We processed a check for 5000 for tree replacement???? LJD

6/13/2005-mjn: Need Statement of Special Inspections an Fire Separation assembly info. Set up a meeting w/ Gary Surtyn for 3:300 today



198 Main Street
Gorham, Maine 04038
Tel: 207 839-1185
Fax: 207 839-4035

*Re-faxed 6/13/05
756-8090
R91*

FAX TRANSMISSION COVER SHEET

Date: 5/25/05 No. of Pages: 2 (Incl. Cover Sheet)
From: Roger G
To: Mike Nugent Fax No.: 874-8716
Co/Org: Portland CE Tel No.: 874-8703

Notice: This message is intended for the individual or entity to which it is addressed or copied (below), and may contain information that is privileged or confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify Gagnon Engineering immediately by telephone.

Message: Mike : Re: Merrill/Rubb VIII
Floor loads
(Bldg loads Snow Wind etc
From Rubb)

Please: Review and Call if you have any questions/problems.

*Thanks
Roger*

Copy: _____
File: _____
Fax No: _____
CC P.P.: 8260100

FROM DESIGNER: Roger R. Gagnon P.E. (DR. GAGNON Eng)
DATE: May 25 05

Job Name: _____

Address of Construction: Danforth St Portland, ME
Merrill's Marine Terminal / Rubb VI.

2003 International Building Code

Construction project was designed according to the building code criteria listed below:

Building Code and Year 139/2003 Use Group Classification(s) S2

Will the Structure have a Fire suppression system in accordance with Section 903.5.1 of the 2003 IRC
Is the Structure mixed use? _____ If yes, separated or non separated. (See Section 902.3)
Supervisory alarm system? _____ Geotechnical/Soils report required? (See Section 1802.2)

STRUCTURAL DESIGN CALCULATIONS

Submitted for all structural members
(105.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
(1808)

Uniformly distributed floor live loads (1808.1.1, 1807)

Floor Area Uses

Storage 1000 psf
_____ _____
_____ _____
_____ _____

Live load reduction (1808.1.1, 1807.8, 1807.10)
Roof live loads (1808.1.2, 1807.11)
Ground snow loads (1808.1.3, 1808)
If $P_g > 10$ psf, flat-roof snow load, P_f (1808.5)
If $P_g > 10$ psf, snow exposure factor, C_e (Table 1808.5.1)
If $P_g > 10$ psf, snow load importance factor, I_s (Table 1808.5)

Roof thermal factor, C_t (Table 1808.2.2)
Sloped roof snowload, S_s (1808.4)

Wind loads (1808.7.4, 1809)

Design option utilized (1808.1.1, 1808.8)

Basic wind speed (1808.9)

Building category and wind importance factor, I_w (Table 1804.5, 1808.6)

Wind exposure category (1809.4)

Internal pressure coefficient (1809.7)

Component and cladding pressures (1808.1.3, 1808.5.2.2)

Main force wind pressures (1808.1.1, 1808.6.2.1)

Seismic design data (1809.1.5, 1814 - 1829)

Design option utilized (1814.1)

Seismic use group ("Category") (Table 1804.5, 1816.2)

Spectral response coefficients, S_{ps} & S_{D1} (1816.1)

Site class (1815.1.5)

Seismic design category (1816.5)
Basic seismic-force-resisting system (Table 1817.6.2)

Rapidity (see modification coefficient, R_d , and deflection amplification factor, C_d) (Table 1817.6.2)

Analysis procedure (1816.6, 1817.6)

Design base shear (1817.4, 1817.5.1)

Flood loads (1808.1.6, 1812)

Flood hazard area (1812.3)

Evaluation of structure

Other loads

Concentrated loads (1807.4)

Partition loads (1807.5)

Impact loads (1807.8)

Misc. loads (Table 1807.9, 1807.6.1, 1807.7, 1807.12, 1807.13, 1810, 1811, 1804)

25000#
Concentrated loads (1807.4) Fork Truck wheels
Partition loads (1807.5)
Impact loads (1807.8)

* Bldg Loads By Rubb
E.A.J.
5/25/05

Applicant: P.D. Merrill -
Address: 601A Danforth St

Date: 2/2/05 - 6/3/05
C-B-L: 072-A-003

CHECK-LIST AGAINST ZONING ORDINANCE

05-0630

Date - Developed site

Zone Location - WPDZ

Interior or corner lot -

Proposed Use/Work - to construct 170' x 330' RubbVII

Sewage Disposal - City

Lot Street Frontage -

Front Yard - None req

Rear Yard - None req

Side Yard - None req

Projections -

Width of Lot - N/A

Height - 45' - Shows 45'

Lot Area - None

Lot Coverage/Impervious Surface - 100%

Area per Family - N/A

Off-street Parking - 0

Loading Bays -

Site Plan - # 2005-002

Shoreland Zoning/Stream Protection - Exempt - over 75' Any way

Flood Plains - Panel 16 - Zone C

FROM DESIGNER: GARY SUTPHIN
 DATE: 5/23/05
 Job Name: RUBBER TII STRUCTURE
 Address of Construction: MERRILL MARINE TERMINAL, PORTLAND, ME.

2003 International Building Code

Construction project was designed according to the building code criteria listed below:

Building Code and Year IBC 2003 Use Group Classification(s) S 2

Type of Construction II B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC NO
 Is the Structure mixed use? NO If yes, separated or non separated (see Section 302.3)
 Supervisory alarm system? NO Geotechnical/Soils report required? (See Section 1802.2) SEE EXISTING REPORT

STRUCTURAL DESIGN CALCULATIONS

Submitted for all structural members
 (102.1, 102.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
 (1608)

Uniformly distributed floor live loads (1608.1.1, 1607)

Floor Area Use

Loads Shown

NOTE: RUBBER TII N/C
REPORTS ON PORT
STRUCTURE BY OTHERS
FOUND FDN. BY OTHERS

Wind loads (1608.1.4, 1607)

ASCE 7 Design option utilized (1608.1.1, 1608.6)

108 MPH 3 SEC Basic wind speed (1608.6)
CAT 1, I.W. 2.87 Building category and wind importance factor, Iw (Table 1604.5, 1608.6)

Wind exposure category (1608.4)

C Internal pressure coefficient (ASCE 7)

Concurrent and cladding pressures (1608.1.1, 1608.6.2.2)

Main force wind pressures (1628.1.1, 1608.5.2.1)

Earthquake design data (1608.1.5, 1614 - 1629)

Design code utilized (1514.1)

Seismic use group (ASCE 1604.5, 1614.2)

Spectral response coefficients, S_{DS} & S₁ (1616.1)

Site class (1615.1.5)

12 psf Live load reduction (1608.1.7, 1607.5, 1607.10)
30 psf Roof live loads (1608.1.2, 1607.11)
30 psf Floor snow loads (1608.1.5, 1607)
9 Ground snow load, P_g (1608.2)
0.8 P_g > 10 psf, flat-roof snow load, P_f (1608.3)
0.8 P_f > 10 psf, snow exposure factor, C_e (Table 1608.3.1)
0.8 P_f > 10 psf, snow exposure factor, C_e (Table 1608.3.1)

0.8 Floor thermal factor, C_t (Table 1608.8.5)

0.8 Stopped roof snowload, P_s (1608.4)

0.8 Seismic design category (1616.5)

0.8 Seismic force-resisting system (Table 1617.5.2)

0.8 Response modification coefficient, R, and deflection amplification factor, C_d (Table 1617.8.4)

0.8 Analytical procedure (1616.6, 1617.5)

0.8 Design base shear (1617.4, 1617.2.1)

0.8 Flood loads (1608.1.6, 1618)

0.8 Flood hazard area (1618.3)

0.8 Elevation of structures

0.8 Other loads

0.8 Concentrated loads (1607.4)

0.8 Partially supported (1607.5)

0.8 Impact loads (1607.8)

0.8 Misc. loads (Table 1607.5, 1607.6.1, 1607.7, 1607.15, 1607.19, 1610, 1608.1.11.5)



198 Main Street
Gorham, Maine 04038
Tel: 207 839-4185
Fax: 207 839-4035

FAX TRANSMISSION COVER SHEET

No. of Pages: 2 (Incl. Cover Sheet)
 Date: 5/25/05 From: Rogers G
 To: Mike Nugent Fax No.: 874-8716
 Co/Org: Portland CE Tel No.: 874-8703

Notice: This message is intended for the individual or entity to which it is addressed or copied (below), and may contain information that is privileged or confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify Gagnon Engineering immediately by telephone.

Message: Mike : Re: Merrill/Rubb VII
Floor loads
(Bldg loads Snow Wind etc
From Rubb)

Please Review and Call if you have any questions/problems.

Thanks
Rogers G

Copy: _____
 File: _____
 CC P.D.: 82660100

Fax No:



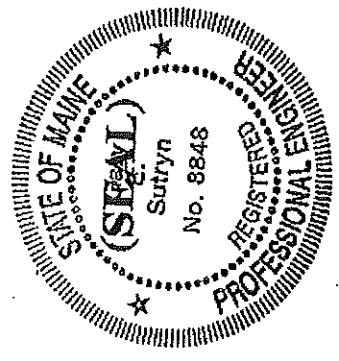
CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: GARY SUTRYN
Address of Project: MERRILL MARINE TERMINAL, PORTLAND
Nature of Project: WAREHOUSE STRUCTURE FOR PRIVATE
USE REQUIRED ONE (1) ACCESSIBLE
ENTRANCE PER ADAAG 4.1.1 (3)

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.

Signature: [Handwritten Signature]
Title: CHIEF ENGINEER
Firm: RUBB INC
Address: SANFORD, ME
Phone: 202-324-0877





CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM:

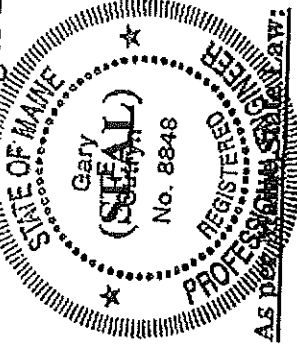
RE: Certificate of Design

DATE: 5/23/05

These plans and / or specifications covering construction work on:

MOBILE MARINE TERMINAL, RUBB III
STRUCTURE PORTLAND, ME.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the 2003 International Building Code and local amendments.



Signature: [Handwritten Signature]
Title: CHIEF ENGINEER
Firm: RUBB INC

Address: SANFORD, ME

\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

FROM DESIGNER: GARY SUTPHIN
 DATE: 5/23/05
 Job Name: RUBB VII STRUCTURE
 Address of Construction: MERRILL MARINE TERMINAL, PORTLAND, ME

2003 International Building Code

Construction project was designed according to the building code criteria listed below:

Building Code and Year: IBC 2003 Use Group Classification(s): S 2
 Type of Construction: II B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC: NO
 Is the Structure mixed use? NO If yes, separated or non separated (see Section 302.3)
 Supervisory alarm system? NO Geotechnical/Soils report required? (See Section 1802.2) SEE EXISTING REPORT

STRUCTURAL DESIGN CALCULATIONS

Submitted for all structural members
 (108.1, 106.7.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
 (1603)

Uniformly distributed floor live loads (1608.1.1, 1607)

Floor Area Use

Loads Shown

NOTE = RUBB V NC
RESPONDERS ONLY
STRUCTURE BY OTHERS
FLOOR & PDN.

Wind loads (1608.1.4, 1609)

ASCE 7 Design option utilized (1609.1.1, 1609.6)

100 MPH 3 SEC Basic wind speed (1609.3)

CAT 1, FW 2.87 Building category and wind importance factor, fw (Table 1604.5, 1608.6)

C Wind exposure category (1609.4)

F=1.8 Internal pressure coefficient (ASCE 7)

MAIN WALLS Component and cladding pressures (1609.1.1, 1609.5.2.2)

ACCE 7 Main force wind pressures (1609.1.1, 1609.6.2.1)

Earthquake design data (1609.1.5, 1614 - 1625)

I Design option utilized (1614.1)

SDS = 0.5 Seismic use group ("Category") (Table 1604.5, 1616.2)

SRI = 0.23 Spectral response coefficients, SDS & SSI (1616.1)

E Site class (1615.1.5)

12 PSF Live load reduction (1609.1.1, 1607.9, 1607.10)
30 PSF Roof live loads (1609.1.2, 1607.11)
30 PSF Ground snow load, Pg (1609.8)
9 If $P_g > 10$ psf, flat-roof snow load, P_f (1609.8)

0.8 If $P_g > 10$ psf, snow load importance factor, I_e (Table 1608.3.1)

Ct = 12 Floor thermal factor, C_t (Table 1608.5.2)

VARIES Sloped roof snowload, P_s (1608.4)

D Seismic design category (1616.5)

R = 5 Basic seismic-force-resisting system (Table 1617.5.2)

C1 = 1.5 Response modification coefficient, R , and deflection amplification factor, C_d (Table 1617.8.2)

1617.5 Analysis procedure (1616.6, 1617.5)

1617.5.1 Design base shear (1617.4, 1617.5.1)

Flood loads (1609.1.6, 1612)

Flood hazard area (1612.8)

Elevation of structure

Other loads

Concentrated loads (1607.4)

Partition loads (1607.5)

Impact loads (1607.8)

Misc. loads (Table 1607.6, 1607.6-1, 1607.7, 1607.12, 1607.13, 1610, 1611, 1604)

FROM DESIGNER: Roger R. Gagnon P.E. (DBA GAGNON Engrs)

DATE: May 25 05

Job Name: Meyll's Marine Terminal / Rubb VIII

Address of Construction: Danforth St Portland ME

Construction project was designed according to the building code criteria listed below:
2003 International Building Code

Building Code and Year 189/2003 Use Group Classification(s) S2

Will the Structure have a Fire suppression system in Accordance with Section 903.5.1 of the 2003 IRC
Is the Structure mixed use? _____ if yes, separated or non separated (see Section 302.3)
Supervisory alarm system? _____ Geotechnical/Soils report required? (See Section 1802.2) _____

*** STRUCTURAL DESIGN CALCULATIONS**

Submitted for all structural members
(106.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
(1808)

Uniformly distributed floor live loads (1808.1.1, 1807)

Floor Area Use Storage Loads Shown 1000 psf

Live load reduction (1808.1.1, 1807.8, 1807.10)
Roof live loads (1808.1.2, 1807.11)

Roof snow loads (1808.1.3, 1808)

Ground snow load, P_g (1808.2)

If $P_g > 10$ psf, flat-roof snow load, P_f (1808.3)

If $P_g > 10$ psf, snow exposure factor, C_e (Table 1808.3.1)

If $P_g > 10$ psf, snow load importance factor, I_s (Table 1804.5)

Roof thermal factor, C_t (Table 1808.3.2)

Sloped roof snowload, P_s (1808.4)

Seismic design category (1816.9)

Basic seismic-force-resisting system (Table 1817.6.2)

Response modification coefficient, R , and deflection amplification factor, C_d (Table 1817.6.2)

Analyze procedure (1816.8, 1817.5)

Design base shear (1817.4, 1817.5.1)

Flood loads (1808.1.6, 1812)

Flood hazard area (1812.9)

Elevation of structure

Other loads

25000

Earthquake design data (1808.1.5, 1814 - 1829)

Design action utilized (1814.1)

Seismic use group (Category) (Table 1804.5, 1816.2)

Spectral response coefficients, S_{ps} & S_{pi} (1815.1)

Site class (1815.1.5)

Concentrated loads (1807.4) Fork Truck wheels

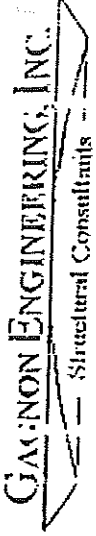
Partition loads (1807.5)

Impact loads (1807.8)

Misc. loads (Table 1807.6, 1807.8.1, 1807.7, 1807.12, 1807.19, 1810, 1811, 2404)

* Bldg Loads By Rubb

R. J. Gagnon 5/25/05



198 Main Street
Gorham, Maine 4038
Tel: 207 839-4185
Fax: 207 839-4035

FAX TRANSMISSION COVER SHEET

No. of Pages: 2 (Incl. Cover Sheet)
 Date: 5/25/05 From: Roger G
 To: Mike Nugent Fax No.: 874-8716
 Co/Org: Portland CE Tel No.: 874-8703

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Message: Mike : Re: Merrill / Rubb VIII
Floor Loads
(Bldg Loads Snow Wind et
From Rubb)

Please Review and Call if you have any questions/problems.

Copy: _____
 File: CC P.D.: 8060100

Thanks Roger