Form # P 04

**DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK**

# CITY OF PORTLAND

## B[illegible]CTION

## PERMIT

PERMIT ISSUED
JUN 24 2005
CITY OF PORTLAND

Permit Number: 256630

Please Read Application And Notes, If Any, Attached

**This is to certify that** MERRILL INDUSTRIES IN[illegible] Cianbro[illegible]

**has permission to** Add a newsprint warehouse, [illegible]yl glad [illegible]vanized [illegible]eel frame [illegible]sulated heated on reinforced concrete pad

**AT** 601 DANFORTH ST [illegible] L 072 A003001

**provided that the person or persons, [illegible]m or [illegible]epting this permit shall comply with all of the provisions of the Statutes of M[illegible]ne and of th[illegible]nces of the City of Portland regulating the construction, maintenance and u[illegible] of buildings and st[illegible]tures, and of the application on file in this department.**

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

N[illegible]ication[illegible] inspec[illegible]n must gi[illegible] and wr[illegible]n permis[illegible]n procu be[illegible]e this b[illegible]ding or [illegible]t thereo la[illegible]d or c[illegible]closed-in. H[illegible]R NOTICE IS REQUIRED.

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

**OTHER REQUIRED APPROVALS**

**Fire Dept.** Capt. Greg Cass 6-6-05

**Health Dept.** _____

**Appeal Board** _____

**Other** _____
Department Name

Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

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

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

PERMIT ISSUED
JUN 24 2005
CITY OF PORTLAND

| Permit No: | Issue Date: | CBL: |
|---|---|---|
| 05-0630 | | 072 A003001 |

| Location of Construction: | Owner Name: | Owner Address: | Phone: |
|---|---|---|---|
| 601 DANFORTH ST | MERRILL INDUSTRIES INC | 601 DANFORTH ST | |
| **Business Name:** | **Contractor Name:** | **Contractor Address:** | **Phone:** |
| | Cianbro Corp. | 328 W. Commercial Street Portland | 2077735852 |
| **Lessee/Buyer's Name** | **Phone:** | | **Zone:** WPDZ |

| Past Use: | Proposed Use: | Permit Fee: | Cost of Work: | CEO District: |
|---|---|---|---|---|
| Marine Terminal | Marine Terminal / Add a newsprint warehouse, Vinyl glad galvanized steel frame, insulated heated on reinforced concrete pad | | | |

**Proposed Project Description:**
Add a newsprint warehouse, Vinyl glad galvanized steel frame, insulated heated on reinforced concrete pad

**FIRE DEPT:** ☑ Approved ☐ Denied
with Conditions
Signature

**INSPECTION:**
Use Group: 52 Type: 2B
6/22/05
Signature

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied
Signature: Date:

| Permit Taken By: | Date Applied For: |
|---|---|
| ldobson | 05/20/2005 |

## Zoning Approval

| Special Zone or Reviews | Zoning Appeal | Historic Preservation |
|---|---|---|
| Shoreland N/A | ☐ Variance | ☑ Not in District or Landmark |
| Wetland | ☐ Miscellaneous | ☐ Does Not Require Review |
| ☐ Flood Zone Panel 16 Zone C | ☐ Conditional Use | ☐ Requires Review |
| ☐ Subdivision | ☐ Interpretation | ☐ Approved |
| ☒ Site Plan #2005-0007 | ☐ Approved | ☐ Approved w/Conditions |
| Maj ☒ Minor ☒ MM ☐ | ☐ Denied | ☐ Denied |
| Date: OK with CO 6/3/05 | Date: | Date: |

### CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK. TITLE | DATE | PHONE

# Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you **are** agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" **will be** incurred if the procedure is not followed as stated below,

A Pre-construction Meeting **will** take place upon receipt of your building permit.

| | |
|---|---|
| Call **Footing/Building** Location Inspection: | Prior to pouring concrete |
| Call **Re-Bar** Schedule Inspection: | Prior to pouring concrete |
| Call **Foundation Inspection:** | Prior to placing ANY backfill |
| Call **Framing/Rough Plumbing/Electrical** | Prior to **any** insulating or drywalling |
| Call **Final/Certificate** of Occupancy: | Prior to any occupancy of the structure or use. NOTE: There is a $75.00 fee per inspection at this point. |

Certificate of Occupancy is not required for **certain** projects. Your inspector **can** advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

_____ If any of the inspections do not occur, the project cannot **go** on to the next phase, **REGARDLESS** OF **THE NOTICE OR CIRCUMSTANCES,**

_____ **CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

Signature of Applicant/Designee — Date

Signature of Inspections Official — Date 6/24/05 Office Admin

CBL: 072 A003 Building Permit #: 050630

FAXED

We Cover The World.®

RUBB BUILDING SYSTEMS

# TELEFAX

COMPANY:
ATTN: MIKE NUGENT
FROM: GARY SUTRYN
FAX NO: 207 874 8216
NO. SHEETS: 7
REF: MERRILL 7
DATE: 6/20/05

RUBB INC.,
Sanford Airport
P.O. Box 711
Sanford, Mains 04073
Tel: (207)324-2877
Fax: (207)324-2347
E-mail: infa@grubbusa.com

Sent [ ]

FIRE INFO FOR PVC

AN INTERNATIONAL COMPANY

CERTIFICATE No. US97/0897

We Cover The World.®
RUBB
BUILDING SYSTEMS

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: 207-874-871*6*

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

Shelter-Rite®
By Seaman Corporation

# High Performance 8028 Architectural Fabric

| 8028 Architectural Fabric | Standard | Metric |
|---|---|---|
| Base-Type Fabric-Weight | Polyester 7.5 oz/yd² | Polyester 254 g/m² |
| Finished Coated Weight ASTM D751 | 28 oz/yd² +2/-1 oz/yd² | 950 g/m² +70/-35 g/m² |
| Tongue Tear ASTM D751 | 8"x10" sample @ 12 in/min. 275/275 $lb_f$ | 20.3 cm x 25.4 cm sample @ 30.5 cm/min. 1223/1223 N |
| Trapezoid Tear ASTM D4533 | 85/85 $lb_f$ | 378/378 N |
| Grab Tensile ASTM D751 | 700/700 $lb_f$ | 3115/3115 N |
| Strip Tensile ASTM D751 Procedure B | 515/515 $lb_f$/in | 458/458 daN/5 an |
| Adhesion ASTM D751 Dielectric Weld | 10 $lb_f$/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 $lb_f$ @ Room temp. 133 $lb_f$ @ 160" F | 5 cm seam, 4 hrs, 2.5 an strip 1183 N @ Room temp. 591 N @ 71°C |
| Low Temperature ASTM D2136 LTC<br>1/8" mandrel, 4 hrs. LTA | Pass -40° F<br>Pass -67° F | Pass -40° C<br>Pass -55" C |
| Flame Resistance | Meets California fire marshal requirements, UL214, NFPA 701, and FTMS 191 method 5903 - 2 second flameout<br>ASTM E84 - flame spread index <25, smoke development rating Y50 | |

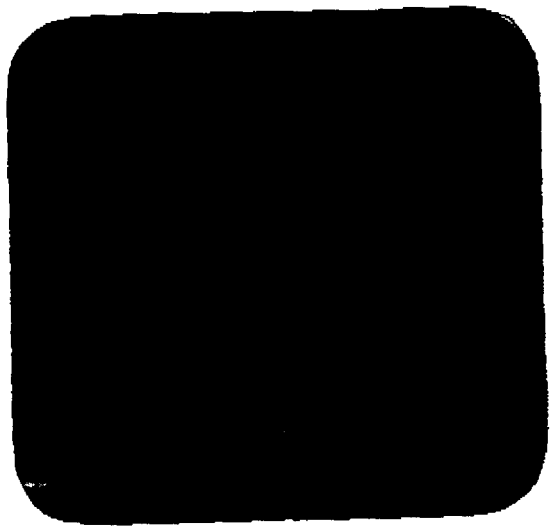


1000 VENTURE BLVD. WOOSTER, OHIO 44691 USA, U.S. Toll-Free: Phone 800-927-8578, Fax 800-649-2737

# 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 13751 | 28 oz/sy |
| Tongue Tear: | ASTM 02261 | 180/180 lbs/in |
| Trapezoid Tear; | ASTM D5733 | 80/70 lbs |
| Grab Tensile: | ASTM D751 | 690/620 lbs/in |
| Stria Tensile: | ASTM *05035* | 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 qualify *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 am 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 io determine the suitability of this material for its intended end use.

# NFPA 701 - 1989 Fire Tests For

## FLAME-RESISTANT TEXTILES AND FILMS

**Prepared for:** Rubb Building Systems

**Project No.:** 91985 **Test Date:** 7/18/91
**Client No.:** 1079 **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 |
| a | Machine | 2.0 | 0.0 | 2.00 |
| 8 | 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, Test Engineer — Date 7/18/91

6868 Alamo Downs Parkway
San Antonio, Texas 78238
512 / 647-5253
TELEX: 9102400828 SWCS UD
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 CRITERLA

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

# *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 contains a total of two pages.

Servando Romo
Fire Test Technologist

9-21-99
Date

Reviewed **and** approved:

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

9-21-99
Date

OMEGA POINT LABORATORIES

# City of Portland, Maine - Building or Use Permit

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

| Permit No: | Date Applied For: | CBL: |
|---|---|---|
| 05-0630 | 05/20/2005 | 072 A003001 |

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

| Proposed Use: | Proposed Project Description: |
|---|---|
| Marine Terminal / Add a newsprint warehouse, Vinyl glad galvanized steel frame, insulated heated on reinforced concrete pad | Add a newsprint warehouse, Vinyl glad galvanized steel frame, insulated heated on reinforced concrete pad |

**Dept:** Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 06/03/2005

**Note:** 6/3/05 still needs stamped approved site plan from planning before issuing
6/16/05 received the stamped approved plans from B.N. & gave to Mike N.

**Ok to Issue:** ☑

1) Separate permits shall be required for any new signage.

2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

**Dept:** Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 06/22/2005

**Note:**

**Ok to Issue:** ☑

1) This use is limited to Newsprint rolls or S2 uses such as
Aircraft hangar
Asbestos
Beverages up to and including 12-percent alcohol in metal, glass or ceramic containers
Cement in bags
Chalk and crayons
Dairy products in nonwaxed coated paper containers
Dry cell batteries
Electrical coils
Electrical motors
Empty cans
Food products
Foods in noncombustible containers
Fresh fruits and vegetables in nonplastic trays or containers
Frozen foods
Glass
Glass bottles, empty or filled with noncombustible liquids
Gypsum board Inert pigments
Ivory
Meats
Metal cabinets
Metal desks with plastic tops and trim
Metal parts
Metals
Mirrors
Oil-filled and other types of distribution transformers
Parking garages, open or enclosed porcelain and pottery
Stoves
Talc and soapstones
Washers and dryers

Any change from the Rolled News Print requires approval. S1 uses shall require a Fire Supression system in accordance with NFPA 13.

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

1) Flow test private hydrant to ensure proper fire flow.

2) To maintain access for fire apperatious 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 vortechnics 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

GAGNON ENGINEERING, INC.

Refaxed 6/13/05
756-8090
RG

# 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



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
Roger G

Copy:
File:

Fax No:

CC P.O.: 8W60100

FROM DESIGNER: Roger R. Gagnon P.E. (DBA Gagnon Engr.

DATE: May 25 05

Job Name: Merrills Marine Terminal / Rubb VI.

Address of Construction: Danforth St 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) S2

Type of Construction _____

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 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 (1603)

Uniformly distributed floor live loads *(1603.1.1, 1607)*

| Floor Area Use | Loads Shown |
|---|---|
| Storage | 1000 psf |
| | |
| | |
| | |
| | |

Wind loads *(1603.1.4, 1609)*

_____ Design option utilized *(1609.1.1, 1609.6)*

_____ Basic wind speed *(1609.3)*

_____ Building category and wind importance factor, $I_w$ *(Table 1604.5, 1609.5)*

_____ Wind exposure category *(1609.4)*

_____ Internal pressure coefficient *(ASCE 7)*

_____ Component and cladding pressures *(1609.1.1, 1609.6.2.2)*

_____ Main force wind pressures *(1609.1.1, 1609.6.2.1)*

Earthquake design data *(1603.1.5, 1614 - 1623)*

_____ Design option utilized *(1614.1)*

_____ Seismic use group ("Category") *(Table 1604.5, 1616.2)*

_____ Spectral response coefficients, $S_{DS}$ & $S_{D1}$ *(1615.1)*

_____ Site class *(1615.1.5)*

_____ Live load reduction *(1603.1.1, 1607.8, 1607.10)*

_____ Roof live loads *(1603.1.2, 1607.11)*

Roof snow loads *(1603.1.3, 1608)*

_____ Ground snow load, $P_g$ *(1608.2)*

_____ If $P_g$ > 10 psf, flat-roof snow load, $P_f$ *(1608.3)*

_____ If $P_g$ > 10 psf, snow exposure factor, $C_e$ *(Table 1608.3.1)*

_____ If $P_g$ > 10 psf, snow load importance factor, $I_s$ *(Table 1604.5)*

_____ Roof thermal factor, $C_t$ *(Table 1608.3.2)*

_____ Sloped roof snowload, $P_s$ *(1608.4)*

_____ Seismic design category *(1616.3)*

_____ Basic seismic-force-resisting system *(Table 1617.6.2)*

_____ Response modification coefficient, $R_I$ and deflection amplification factor, $C_d$ *(Table 1617.6.2)*

_____ Analysis procedure *(1616.6, 1617.5)*

_____ Design base shear *(1617.4, 1617.5.1)*

Flood loads *(1603.1.6, 1612)*

_____ Flood hazard area *(1612.3)*

_____ Elevation of structure

Other loads

25000# Concentrated loads *(1607.4)* Fork Truck wheels

_____ Partition loads *(1607.5)*

_____ Impact loads *(1607.8)*

_____ Misc. loads *(Table 1607.8, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)*

* Bldg Loads By Rubb

5/25/05

Applicant: P.D. Merrill - Date: 2/2/05 & 6/3/05

Address: 601A Danforth St 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'x330' Rubb VII

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' - Showing 45'

Lot Area - None

Lot Coverage/Impervious Surface - 100%

Area per Family - N/A

Off-street Parking - ok

Loading Buys -

Site Plan - #2005-002

Shoreland Zoning/Stream Protection - Exempt - over 75' Anywhy

Flood Plains - panel 16 - Zone C

# All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

(NEW PAD)

| Total Square Footage of Proposed Structure | Square Footage of Lot |
|---|---|
| 54,573sf | 1,263,240 |

| Tax Assessor's Chart, Block & Lot | Owner: | Telephone: |
|---|---|---|
| Chart# 72 Block# A Lot# 3,7,15 | MERRILL INDUSTRIES INC | 207 846 0100 |

| Lessee/Buyer's Name (If Applicable) | Applicant name, address & telephone: | Cost Of Work: $ 2,410,000 |
|---|---|---|
| | MERRILL INDUSTRIES INC<br>114 Eben Hill Road<br>Yarmouth, ME 04096 | Fee: $ 2,711 |

Current use: MARINE TERMINAL 846-0100

**If the location is currently vacant, what was prior use:** —

**Approximately how long has it been vacant:** —

Proposed use: NEWSPRINT WAREHOUSE

Project description: Vinyl clad, galvanized steel frame, insulated and heated on reinforced concrete pad.

Contractor's name, address & telephone: CIANBRO, CORP 366 W Commercial St 223-5552
RUBB BUILDING SYSTEMS P.O. Box 711 Somerset ME 324-2977

Who should we contact when the permit is ready: P.D. MERRILL

Mailing address: 114 Eben Hill Road
Yarmouth, ME 04096

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a $100.00 fee if any work starts before the permit is picked up. **PHONE:** 846-0100

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APROVE THIS PERMIT.

*I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, If a permit for work described in this application is issued. I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.*

Signature of applicant: [signature] Date: May 20 2005

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

FROM DESIGNER: GARY SUTRYN

DATE: 5/23/05

Job Name: RUBB/XII 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): S2

Type of Construction: IIB

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IBC: 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 *(106.1, 106.1.1)*

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)

Uniformly distributed floor live loads *(1603.1.1, 1607)*

| Floor Area Use | Loads Shown |
|---|---|
| NOTE - RUBB ROOF ONLY - STRUCTURE FLOOR & FDN. | INC BY OTHERS |

Wind loads *(1603.1.4, 1609)*

ASCE 7 Design option utilized *(1609.1.1, 1609.6)*

100 MPH 3 SEC Basic wind speed *(1609.3)*

CAT I, $I_w$ = 1.07 Building category and wind importance factor, $I_w$ *(Table 1604.5, 1609.5)*

C Wind exposure category *(1609.4)*

+/-.18 Internal pressure coefficient *(ASCE 7)*

MAIN WIND FORCE Component and cladding pressures *(1609.1.1, 1609.6.2.2)*

ASCE 7 Main force wind pressures *(1609.1.1, 1609.6.2.1)*

Earthquake design data *(1603.1.5, 1614 - 1623)*

_____ Design option utilized *(1614.1)*

I Seismic use group ("Category") *(Table 1604.5, 1616.2)*

$S_{DS}$ = 0.5 $S_{D1}$ = 0.2 Spectral response coefficients, $S_{DS}$ & $S_{D1}$ *(1615.1)*

E Site class *(1615.1.5)*

_____ Live load reduction *(1603.1.1, 1607.9, 1607.10)*

18 PSF Roof live loads *(1603.1.8, 1607.11)*

Roof snow loads *(1603.1.8, 1608)*

50 PSF Ground snow load, $P_g$ *(1608.2)*

30 PSF If $P_g$ > 10 psf, flat-roof snow load, $P_f$ *(1608.3)*

.9 If $P_g$ > 10 psf, snow exposure factor, $C_e$ *(Table 1608.3.1)*

0.8 If $P_g$ > 10 psf, snow load importance factor, $I_s$ *(Table 1604.5)*

$C_t$ = 1.2 Roof thermal factor, $C_t$ *(Table 1608.3.2)*

VARIES Sloped roof snowload, $P_s$ *(1608.4)*

D Seismic design category *(1616.3)*

2D Basic seismic-force-resisting system *(Table 1617.6.2)*

R = 5 $C_d$ = 4.5 Response modification coefficient, $R_I$ and deflection amplification factor, $C_d$ *(Table 1617.6.2)*

1617.5 Analysis procedure *(1616.6, 1617.5)*

1617.5.1 Design base shear *(1617.4, 1617.5.1)*

Flood loads *(1603.1.9, 1612)*

_____ Flood hazard area *(1612.3)*

_____ Elevation of structure

Other loads

_____ Concentrated loads *(1607.4)*

_____ Partition loads *(1607.5)*

_____ Impact loads *(1607.8)*

_____ Misc. loads *(Table 1607.8, 1607.8.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)*

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 2

| | |
|---|---|
| To DANNIE ODISSON | From PD MORRILL |
| Co. City | Co. Merrill Ind |
| Dept. | Phone # 846 0100 |
| Fax # 874-8716 | Fax # 846 0100 |

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, 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.

STATE OF MAINE
Gary
(SEAL)
No. 8848
REGISTERED
PROFESSIONAL ENGINEER

As per Maine State Law:

$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.

Signature: _____

Title: CHIEF ENGINEER

Firm: RUBB INC

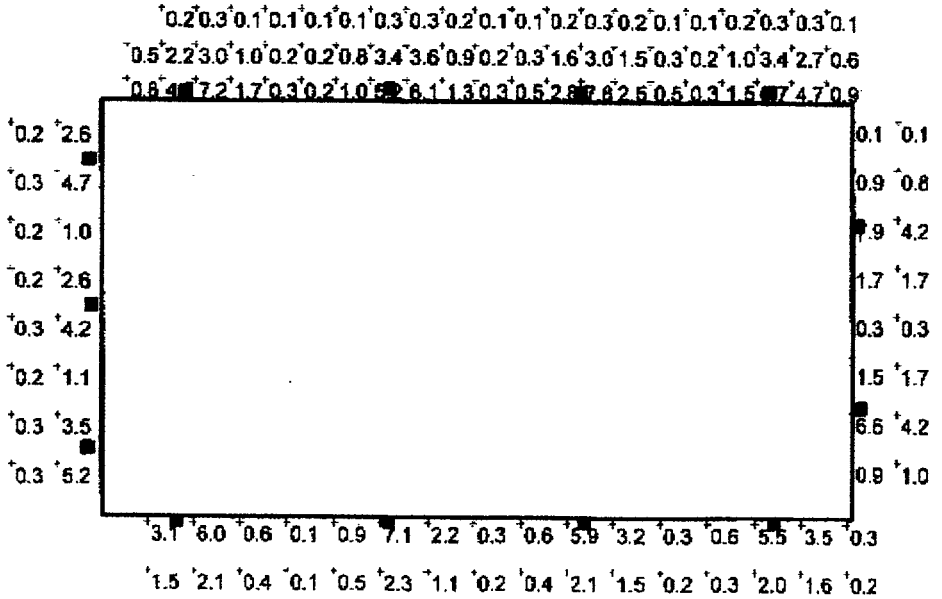
Address: SANFORD, ME

## LUMINAIRE SCHEDULE

| Symbol | Label | Qty | Catalog Number | Description | Lamp | File | Lumens | LLF | Watts |
|---|---|---|---|---|---|---|---|---|---|
| ■ | A | 13 | MH-IT-175 | CUT-OFF WALL LUMINAIRE | 175 WATT MH ED-17 MEDIUM BASE CLEAR | IP15H.IES | 14000 | 0.75 | 210 |

## STATISTICS

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|---|---|---|---|---|---|---|
| North End | + | 1.5 fc | 7.8 fc | 0.1 fc | 78.0:1 | 14.7:1 |
| South End | + | 1.8 fc | 7.1 fc | 0.1 fc | 71.0:1 | 17.7:1 |
| West End | + | 1.7 fc | 5.2 fc | 0.2 fc | 26.0:1 | 8.4:1 |
| East End | + | 2.1 fc | 7.9 fc | 0.1 fc | 79.0:1 | 21.2:1 |




**Plan View**

Scale 1" = 80'

Check wall ?

HORIZON

Merrill Marine

RUBB Building Exterior Lighting

Designer
MRW

Date
Apr 28 2005

Scale

Drawing No.

# MERRILL INDUSTRIES, INC.

114 Eben Hill Road. Yarmouth. ME 04090

May 20,2005

City of Portland
Building Department
Attn: Michael Nugent
**389** Congress Street
Portland, ME 04102

Re: Building Permit Application
Rubb VII, **601** Danforth Street

Dear Mr. Nugent:

Merrill Industries is now applying for a building permit to allow construction of Rubb VII **as** reviewed and approved with certain conditions by the Planning Department on February 8,2005.

Merrill Industries, Inc. owns the land and improvements and leases them to Sprague Energy Inc. which operates the property as a marine terminal in substantially the same manner as it has been operated since **1982.** The proposed building will be constructed on the site of a pad currently used for the accumulation of recycled metal prior to shipment by ocean vessel. This activity will be terminated and the space will be occupied by Rubb VII which will be constructed in substantially the same manner and for the same purpose as Rubb VI which we constructed in 2002. Rubb VII is designed and will be used for the storage **of** newsprint. This building will be served by rail and truck and will receive cargo from vessels which is currently being transshipped directly from the vessel to South Portland warehouses. The net result is a significant reduction of truck traffic in and out of the terminal because of the elimination of the recycled metal operation.

**As** with Rubb VI, Rubb VII will have an advanced smoke detection and alarm system. Fire suppression **as** designed and installed by Dean & Allyn will be provided by six hose reels served by an 8" water main.

Planning Department conditions:

1. **A** water capacity letter from the Portland Water District is enclosed.
ii. **A** $5,000 check to the Portland Tree Trust is enclosed.
iii. Evidence of inspection, cleaning and maintenance of the existing vortechnics unit is enclosed.
iv. **A** revised exterior lighting fixture (copy enclosed) has been submitted to the Planning Board for review and approval.
**v.** **A** Permit By Rule application for grading at the water's edge **has** been filed.

Building Department requirements:

**A** permit fee based on a construction cost of **$2,410,000** is enclosed in the amount of **$21,711.**

Two sets of stamped drawings and 1 PDF including site plan, grading plan and foundation and slab plan prepared by Gagnon Engineering Inc. of Gorham, Maine are enclosed.

Two sets of stamped drawings and 1 PDF including building plan and elevation, anchor bolt layouts, roof truss, leg truss and axial steel together with cable isometric drawings, purlin and steel layout drawings all prepared by Rubb Buildings of Sanford, Maine are enclosed.

Both firms performed similar work for Rubb VI.

**A** Signage permit application will be filed separately.

Thanks for your early consideration of this important working waterfront project.

Sincerely,

P.D. Merrill
President

# 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 bas 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

#04480

| Post-it® Fax Note 7671 | Date 5/19 | # of pages ▶ 1 |
|---|---|---|
| To PD Merrill | From DTM | |
| Co./Dept. Merrill Tids | Co. STI | |
| Phone # 846-0100 | Phone # 856-0277 | |
| Fax # [illegible] | Fax # -2206 | |

225 DOUGLASS STREET P.O. BOX 3553 PORTLAND, MAINE 04104-3553
PHONE: 207.774.5961 FAX: 207.761.8307 WEB: WWW.PWD.ORG

**Merrill's Marine Terminal**

# Weekly Stormwater System Maintenance Report

By: Jeff Brawn Week Ending: 2-May-05

DAILY: Yard sweeping by. Initials required

| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
|---|---|---|---|---|---|---|
| DG | DG | DG | DG | DG | | |

WEEKLY:

| Mead Pad CATCH BASIN #1 | Warren Pad CATCH BASIN #2 | NORTH TRENCH | EAST TRENCH | SOUTH TRENCH |
|---|---|---|---|---|
| CLEAN | CLEAN | OK | OK | N/A |

**SILT FENCE**
Check, Clean and Repair/Replace as needed

| | |
|---|---|
| **East Pool** | OK |
| **Center Pool** | OK |
| **West Wharf** | OK |

MONTHLY: Open and check on or about the First 4/1 1/2005

**VORTECH #1 North west** 32" SEDIMENT

**VORTECH #2 South** 38' SEDIMENT

GENERAL COMMENTS (Heavy Precipitation, Spills, System Malfunctions, Cleanings, ETC.)

ALL SILT FENCE REPAIRED

CATCH BASINS AND VORTECS **NEED** CLEANING AND PUMPING

SHIFT TIME

DAY & DATE 5-14-05 SAT

JOB #

QUOTE / TASK #

CLIENT Sprague Energy Corp

BILLING ADDRESS

CleanHarbors ENVIRONMENTAL SERVICES®

P.O #/COD AMOUNT

T&M ☐ CONTRACT ☐ CHANG ORDER ☐

JOB LOCATION 601 A Dawforth St. Portland, ME

CONTACT: Ted Adamberg

JOB DESCRIPTION:

Pump out Catch Basin Separators, out fall

**LABOR:**

| NAME | TITLE | PER DIEM | ST | OT | DT |
|---|---|---|---|---|---|
| | SUPERVISOR | | | | |
| Ben Underhill | FOREMAN | | | 6 | |
| | EQ OPERATOR | | | | |
| Bob Westerchamp | EQ OPERATOR | | | 6 | |
| | FIELD TECH | | | | |
| | FIELD TECH | | | | |
| | FIELD TECH | | | | |

**COMMENTS:**

Change Types of Crew, In first hole Got Everything But Thermo

**DISPOSAL:** On Site

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

**JOB COMPLETED** ☐ YES ☐ NO

**MATERIAL:**

| QTY. | DESCRIPTION |
|---|---|
| | SPEEDI 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 SNARE (ON ROPE) BL. |
| | ROPE TYPE: |
| | ~~DEGREASER~~ WHAT TYPE? |
| | |
| | 5 GAL BUCKET |
| | DUCT TAPE |
| | SSH&SP |
| | POLY LINER (ROLL OFF) |

NUMBER OF PPE SETS COMPLETE INITIAL PPE SETS

EMPLOYEES IN PPE

PPE LEVEL (CIRCLE ONE)

A B C D

PPE TYPE (CIRCLE ONE)

1 2 3 4 5

**ADDITIONAL PPE ITEMS USED AFTER INITIAL SETS**

| QTY. | DESCRIPTION |
|---|---|
| | CARTRIDGE TYPE: |
| | RESP. TYPE: |
| | SUIT TYPE: |
| | INNER GLOVE TYPE: |
| | OUTER GLOVE TYPE: |
| | AIR BOTTLES |

**EQUIPMENT:**

| QTY. | TYPE | FLEET # | # OF HRS | DAILY RATE |
|---|---|---|---|---|
| 1 | PICK-UP TRUCK | 8490 | 6 | |
| | VACUUM TRAILER | | | |
| | TRACTOR | | | |
| | VACUUM ST. TRUCK | | | |
| | BOX TRUCK | | | |
| 1 | VACTOR Curtis | 4130 | 6 | |
| | COMPRESSOR | | | |
| | BACKHOE | | | |
| | BOBCAT | | | |
| | RACK TRUCK | | | |
| | METER TYPE: | | | |
| | COMMS PACKAGE | | | |
| 1 | Pressure Washer | | 6 2/5 | |

| TYPE | DESTINATION |
|---|---|
| | |
| | |
| | |

| NAME OF COMPANY | DESCRIPTION |
|---|---|
| | |
| | |
| | |

Customer: Sprague Energy (Company Name)

By:

TYPE:

CATALOG #:

# COOPER LIGHTING—LUMARK®

## DESCRIPTION

Dominated by flat surfaces and strong lines thaf emphasize the principles of architecture, the *IMPACT* Trapezoid cutoff wall luminaire make an ideal complement to site design. U.L. Listed end 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.

## 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 end 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 heed set screws concealed but accessible from bottom.

**C—Optical Modules**
All optical modules utilize high performance 95% reflective sheet Strong Type II optical module is standard.

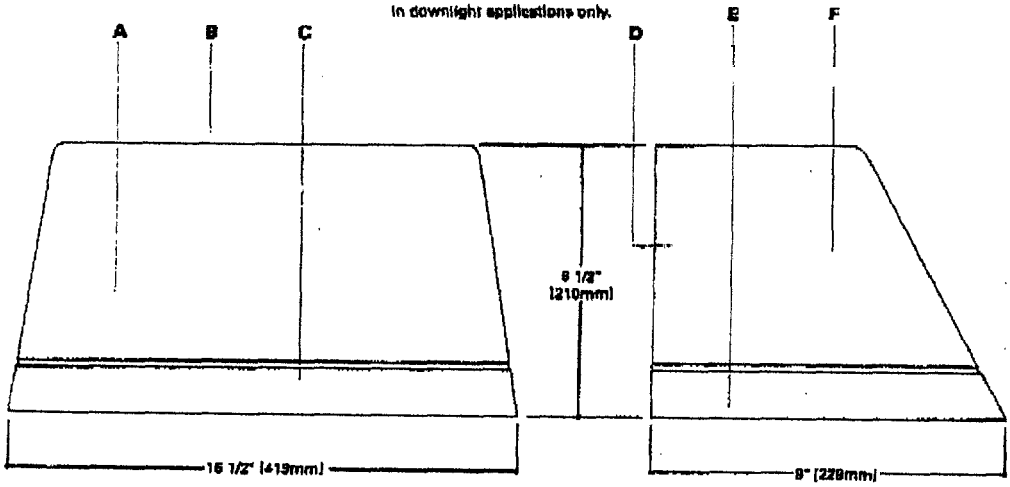
**D—Ballast**
HID luminaires supplied with high power factor ballast with Class H insulation. Minimum starting temperatures are -40°C (-40°F) for HPS and -30°C (-20°F) far MH. Compact Fluorescent luminaires feature program start, high efficient multi-voltage 50/60Hz ballast with -18°C (0°F) minimum starting.

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

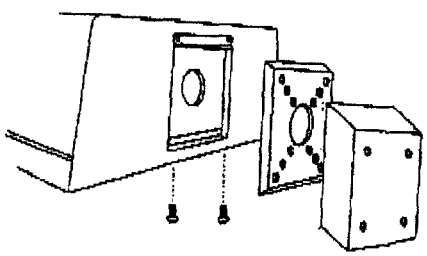
**F—Finish**
Durable polyester powder coat finish. Standard color is bronze. Optional white, alack and silver colors available. Other finish colors available. Consult your Cooper Lighting Representative concerning special color requirements.

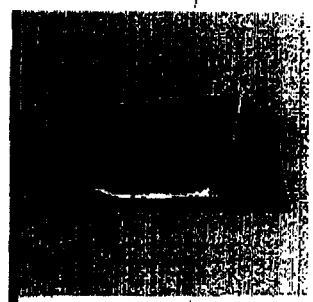
Dark Sky Friendly

**DARK SKY FRIENDLY**
In downlight applications only.




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





## IP IMPACT TRAPEZOID

**50-175W**
High Pressure Sodium
Metal Halide

**26-52W**
Compact Fluorescent

FULL CUTOFF
WALL MOUNT
LUMINAIRE

iMPACT™
Cutoff Wall Luminaire

**TECHNICAL DATA**
25°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum
Down Mounted—Wet Location
Up Mounted—Damp Location

**ENERGY DATA**
High Reactance Ballast Input Watts
50W HPS HPF (66 Watts)
50W MH HPF (72 Watts)
70W HPS HPF (91 Watts)
70W MH HPF (90 Watts)
100W HPS HPF (130 Watts)
100W MH HPF (129 Watts)
150W HPS HPF (190 Watts)
150W MH HPF (185 Watts)

CWA Ballast Input Watts
175W MH HPF (210 Watts)

Electronic Ballast Input Watts
26W PL HPF (29 Watts)
32W PL HPF (36 Watts)
42W PL HPF (46 Watts)
52W PL HPF (55 Watts)

**SHIPPING DATA**
Approximate Net Weight:
18 lbs. (8 kgs.)

**COOPER LIGHTING**

ADH040602

**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**

**2005-0002**
Application I. D. Number

**111012005**
Application Date

**Merrill Industries Inc**
Applicant

**Merrill Marine Terminal**
Project Name/Description

**114 Eben Hill Road, Yarmouth, ME 04096**
Applicant's Mailing Address

**601 - 601 Danforth St, Portland, Maine**
Address of Proposed Site

Consultant/Agent

**Applicant Ph: (207) 846-0100** **Agent Fax:**
Applicant or Agent Daytime Telephone, Fax

**072 A003001**
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply): ☐ New Building ☐ Building Addition ☐ Change Of Use ☐ Residential ☐ Office ☐ Retail ☐ Manufacturing ☐ Warehouse/Distribution ☐ Parking Lot ☐ Other (specify)

**56,100 s.f.** | | **WD**
Proposed Building square Feet or # of Units | Acreage of Site | Zoning

**Check Review Required:**

☐ Site Plan (major/minor) ☐ Subdivision # of lots ☐ PAD Review ☐ **14-403** Streets Review
☐ Flood Hazard ☐ Shoreland ☐ HistoricPreservation ☐ DEP Local Certification
☐ Zoning Conditional Use (ZBA/PB) ☐ Zoning Variance ☐ Other

Fees Paid: Site Pla **$4,000.00** Subdivision Engineer Review Date **111012005**

## Zoning Approval Status:

Reviewer Marge S.-

☐ **Approved** ☐ **Approved w/Conditions** See Attached ☐ **Denied**

only A Sheet - No Attachments

Approval Date Approval Expiration Extension to ☐ Additional Sheets Attached

What's going on

☐ Condition Compliance
signature date

**PerformanceGuarantee** ☐ **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
☐ Performance Guarantee Reduced — date | remaining balance | signature
☐ Temporary Certificate of Occupancy — date ☐ Conditions (See Attached)
☐ Final Inspection — date | signature
☐ Certificate Of Occupancy — date
☐ Performance Guarantee Released — date | signature
☐ Defect Guarantee Submitted — submitted date | amount | expiration date
☐ Defect Guarantee Released — date | signature

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
JAN 11 2005
RECEIVED

**From:** Marge Schmuckat
**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

Sebago Technics
Engineering Expertise You Can Build On

sebagotechnics.com
One Chabot Street
P.O. Box 1339
Westbrook, Maine
04098-1339
Ph. 207-856-0277
Fax 856-2206

60A Danforth St
WPD Zone

04480

2/2/05 called PD re: Spoke to him

# MEMORANDUM

**To:** Bill Needleman, City of Portland, Planning Department

**From:** Don McElhinney

**Date:** February 1, 2005

**Subject:** Response to DeLuca-Hoffman Comments
Merrill Industries – Rubb #7
Site Location Application

2/2/05

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
FEB 2 2005
RECEIVED

Enclosed please find updated site plans for the project. These plans include:

- A Site Circulation Plan by Sebago Technics, Inc. (STI)
- A Revised Grading and Utility Plan by Gagnon Engineering
- An Erosion/Sediment Control Plan by STI
- Two 11 x 17 drawings from Rubb Building Systems

The balance of this memo responds point by point to the comments of DeLuca-Hoffman Associates.

**Item 1a** – A copy of the response to this application from the Maine Historic Preservation Commission is attached. No response has been received to date from the Maine Inland Fish and Wildlife Department.

**Item 1b** -- The company owns a "Tenant" vacuum sweeper which it uses to clean roadways and parking lots as required. The cleanliness standard is mandated primarily by its customers.

**Item 2** – We concur that water quality should be improved simply due to the change in use and elimination of the scrap metal piles which historically occupied the development area.

**Item 3a** – We have reviewed the project with Portland Water District. A copy of correspondence from them is attached for your use.

**Item 3b** – A site circulation map has been developed for the site. A copy has been attached The hydrant located near the proposed building is a private hydrant and as such, the maintenance

of the hydrant has been performed by Merrill Industries and the City of Portland Fire Department has also conducted inspections routinely. During this project, Lt. Gaylon McDougall of the Portland Fire Department was consulted for his input on fire flows at this location. Since we know the available flow/pressure from hydrant testing on West Commercial Street by PWD in the 1990s, Lt. McDougall was not concerned that available water flow and pressure would be available at the private hydrant.

**Item 3c** – Sebago Technics has reviewed and modified the site grading and stormwater conveyance system. Please refer to the revised plans enclosed herein.

**Items 3d** – We have received sections of the building from Rubb Building Systems which show the height of the building.

**Items 3e** – We are in the process of determining whether FAA review is necessary and if we need to file for review with them.

**Item 3f** – Proper inverts for the stormwater conveyance system have been added to the site utility and grading plan.

**Item 3g** – The building floor plan showing points of egress has been included with this submittal. Generally, it is seen that personnel doors are located at each comer of the building and one additional personnel door is located midway along the south side of the building.

**Item 3h** – Lights will be located on all sides of the building. These are now shown on the attached drawings from Rubb and these are generally located 11' from grade.

**Item 3i** – An Erosion/Sedimentation Control Plan has been developed for the site by STI. This drawing is enclosed.

**Items 3j** – The proposed building will predominantly be founded on fill material. Dewatering during construction is not anticipated by the geotechnical report Section 11 of the original submittal.

DTM:dlf

MAINE HISTORIC PRESERVATION COMMISSION
55 CAPITOL STREET
65 STATE HOUSE STATION
AUGUSTA, MAINE
04333

JOHN ELIAS BALDACCI
GOVERNOR

EARLE G. SHETTLEWORTH. JR.
DIRECTOR

December **22,2004**

Donald T. McElhinney, VP Environmental Engineering
Sebago Technics
1 Chabot St. / P.O. **Box 1339**
Westbrook, ME **04098-1339**

Project: MHPC #2667-04 - proposed development; Merrill Industries site, Danforth Street
Town: Portland, ME

Dear Mr. McElhinney:

In response to your recent request, I have reviewed the information received December **3,** 2004 to initiate consultation on the above referenced project pursuant to Maine's Site Location of Development Law.

Based on the location and scope of work, I have concluded that this project will have no effect upon historic properties [architectural or archaeological].

Please contact Mike Johnson of my staff if we can be of further assistance in this matter.

Sincerely,

Earle G. Shettleworth, Jr.
State Historic Preservation Officer

EGS/mj

12-28-04

PHONE: (207) 287-2132



FAX: (207) 287-2335

Portland Water District
P.O. **Box** 3553
225 Douglass Street
Portland, Maine 04104-3553

**Phone: 207-774-5961**
**FAX:** 207-761-8307
Web **Site:** www.pwd.org

1/28/2005

Mr. Donald MacElhinney
Sebago Technics
One Chabot St., POB 1339
Westbrook, ME 040981339

With regard to the Project known as Merrill Marine Terminal located on/in Danforth Street, Portland we offer the following comments pertaining to plans received 1/27/2005

It was a pleasure to meet with you on January 26, 2005 to discuss this project. This letter will confirm that an "easement modification agreement" will be needed to permit the fill over our existing 20" water main and any other site improvements that are planned within our easement. As long as no building will be constructed in the easement, this can be handled at staff level without Trustee action being required. If the corner of the proposed building will encroach, then Trustee action would be required. Based on our review of the plans you left with me, it appears that the building will encroach by one foot.

You mentioned that the westerly end of the building may be shortened and moved easterly a few feet, and if this is done it is likely that the encroachment will not occur. If there is no shortening of the building, then, sliding the whole structure to the east a few feet, or to the south a foot would clear the encroachment, too.

As your plans develop, please apply to Norman Twaddel, our Right of Way Agent, to initiate the easement modification process. If I can be of further assistance, please advise me.

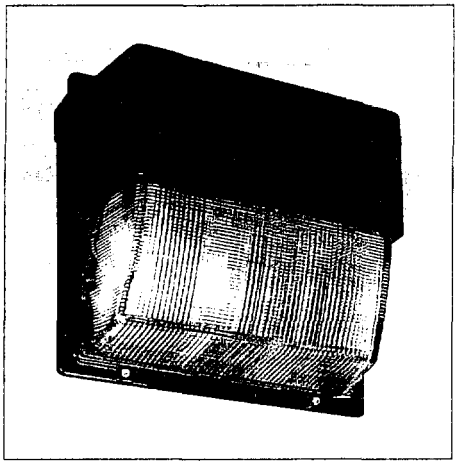
received
1-31-05
SEBAGO TECHNICS

Jay Hewett

DocID: 177

# TWH

## Die-Cast Wall-Paks, Glass Refractor



### Intended Use

For outdoor storage areas, warehouse and factory perimeters and loading docks.

### Features

Housing – Rugged, die-cast aluminum housing. Corrosion-resistant captive external hardware includes slotted hex-head fasteners. Standard finish is dark bronze polyester powder, electrostatically applied and oven-cured. Other architectural colors available.

Oprics – Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass. Lens is sealed and gasketed to inhibit entrance of outside contaminants.

Ballast– 70-150W HPS & 100-150M: High-reactance, high-power factor. All others: Constant-wattage autotransformer. Encased-and-potted solid-state ignitors (HPS and 100MH). Ballast is copper wound and 100% factorytested. UL listed. Electrical components mounted in hinged front cover that includes prim;, and secondary electrical disconnect.

Installation – Back housing is separat from front housing, eliminating ball: weight and promoting easy handling. T ¾" threaded wiring access. Back acce through removable ¾" knockout. Mou on any flat, non-combustible vertical si face. **Not recommended** in **applicatio where** a **sprayed stream** of **water** c **come** in **direct contact** with **glass len**

Socket – Glazed porcelain (mogul-bas horizontally oriented with copper all nickel plated screw shell and center co tact. JKV pulse rated. Medium-base. listed 660W, 600V. Mogul-base: UL list 1500W, 600V.

Listings – UL Listed (standard). CSA NOM Certified (see Options). UL listed wet locations. IP65 rated (250W and b low) *or* IP54 rated (400W) in accordan with IEC standard 529.

For product details and performance data, see the OUTDOO binder or the on-line catalog at *www.lithonia.com*

## Ordering information

Example: **TWH 250S**

### Designation

High Pressure Sodium
- **TWH 70S**
- **TWH 100S**
- **TWH 150S**[3]
- **TWH 200S**
- **TWH 250S**
- **TWH 400S**
- **TWH 250/400S**[4]

Metal Haldie
- **TWH 150M**
- **TWH 175M**
- **TWH 200M**[5]
- **TWH 250M**
- **TWH 320M**[5]
- **TWH 350M**[5]
- **TWH 400M**[6]

Mercury Vapor
- **TWH 100H**
- **TWH 175H**
- **TWH 250H**

Low Pressure Sodium
- **TWH 35L**[1]

Incandescent
- **TWH 300I**[2]

### Voltage

- **120**
- **208'**
- **240**[7]
- *217*
- **347**
- **480**[8]
- **TB**[9]

### Installed

- **SF** Single fuse (120, 277, 347V)[1]
- **DF** Double fuse (208, 240, 480V)[1]
- **EC** Emergency circuit[11,12]
- **QRS** Quartz restrike system[11,12]
- **CR** Corrosion-resistant finish

### Lamp/Fixture/Ballast

| Wattage | Ballast | Weight Lbs | Kg |
|---|---|---|---|
| **High Pressure Sodium (Med/Clear)** | | | |
| 35 | RHPF-RNPF | 24 | 11 |
| 50 | RHP | 24 | 11 |
| 70 | HX-HPF | 24 | 11 |
| 100 | HX HPF | 24 | 11 |
| 150 | | 26 | 12 |
| **High Pressure Sodium (Mog/Clear)** | | | |
| 200 | | 28 | 13 |
| 250 | CWA | 32 | 15 |
| 400 | | 42 | 19 |
| **Metal Haldie (Med/100) Mog/Clear)** | | | |
| 100 | XHP | 26 | 12 |
| 150 | | 26 | 12 |
| 175 | | 26 | 12 |
| 250 | CWA | 32 | 15 |
| 400 | | 42 | 15 |
| **Mercury Vapor (Mog/Coated)** | | | |
| 100 | | 21 | 10 |
| 175 | CWA | 23 | 10 |
| 250 | | 26 | 12 |
| **Low Pressure Sodium (D.C Bay/Clear)** | | | |
| 35 | HX-HPF | 25 | 11 |

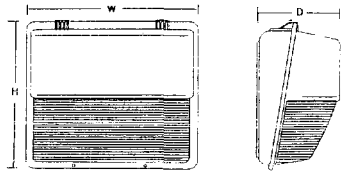
### Options/Accessories

- **CRT** Corrosion-resistant finish (Teflon)[13]
- **PE** Photoelectric cell – button type
- **PER** NEMA mist-lock receptacle[14]
- **LPI** Lamp (shipped in carton with fixture)
- **LS** Lamp support (mogul socket only)
- **FS** Full shield
- **WG** Wireguard[15]
- **VG** Vandal guard[15]
- **SCWA** Super SCWA Pulse Start Ballast (150M-400M only--n/a 175M )
- **RHP** Reactor High Power factor Ballast (HPS 150W 8 below only)
- **RNP** Reactor Normal Po factor Ballast (HPS 150W & below only)
- **XHP** Reactance High Power factor ballas (HPS 150W & below only)
- **CSA** CSA Certified
- **NOM** NOM Certified icon: factory)

For optional Architectural Colors, se page 349

### Accessories (Order separat

- **RK1 PEB1** Photoelectric control kit, 120V
- **PE3** NEMA twist-lock photocontrol, 34
- **PE4** NEMA twist-lock photocontrol, 48




Dimensions are shown in **inches (centimeters)** unless otherwise noted

| | TWH |
|---|---|
| Height | 15¾ (40) |
| Width | 16⅛ (40.9) |
| Depth | 8 (20.3) |

NOTES:
1. Not available TB.
2. 120V only.
3. Operates 55V lamp.
4. Shipped as 250S.
5. Must be ordered with SCWA.
6. Requires T-15, ED or BT 28 reduced jacket lamp.
7. Consult factory for availability in Canada.
8. Not available in Canada.
9. Optional multi-tap ballast (120, 208, 277V; 120, 277, 347V in Canada).
10. Other ballast types available.
11. Lamp not included.
12. Quartz lamp wattage not to exceed fast wattage rating.
13. Black finish only.
14. Photocell not included.
15. Requires factory modification.

**MERRILL INDUSTRIES, INC.**

Minutes of Neighborhood Meeting
6:00 PM Monday January 31, 2005
At
601 Danforth Street
Portland, Maine

Attendance: A) Neighborhood: Joan Amory
59 Chadwick Street
Portland

B) Merrill Industries: P.D. Merrill

Subject: Proposed Rubb VII Warehouse Development

Meeting was called to order at *6:*10 PM in the lower corridor of the marine terminal office to review the overall site plan and proposed warehouse layout and elevations.

Mrs. Amory was reporting for "Working Waterfront" newspaper and was interested in the building construction, history of the building company, other applications of the building and its performance in fire and other casualty situations.

All questions were covered and the meeting was adjourned at 6:28 PM.

Respectfully submitted,

P.D. Merrill

subject to the following requirements:

(1) *Minimum lot size:* None.

(2) *Minimum frontage:* None.

(3) *Minimum yard dimensioas:*

Front setback: None.

Side setback: None.

Rear setback: None.

Setback from pier line: Notwithstanding the above requirements, a minimum setback of five (5) feet from the edge of any pier, wharf or bulkhead shall be required for any structure. The setback area may be utilized for activities related to the principal uses carried on in the structure, subject to the provisions of sections 14-319 and 14-320, but shall not be utilized for off-street parking. The edge of any pier, wharf or bulkhead shall include any attached apron(s).

(4) *Maximum lot coverage:* One hundred (100) percent

(5) *Maximum building height:* Forty-five (45) feet, except as follows:

a. In the areas bounded as described below, facilities. for bulk storage of materials delivered to a site by waterborne transportation or awaiting transportation from the site by means of waterborne transportation may be erected up to the maximum heights indicated (above mean sea level :

1. In the area that lies between Danforth Street and the Veterans Memorial Bridge: One hundred forty-five (145) feet.

2. In the area between Danforth Street and the projection of the centerline of Vaughn Street between its intersections with Orchard Street and Danforth Street: Seventy (70) feet.

3. In the area between the projection of the centerline of Vaughn Street between its intersections with Orchard Street and Danforth Street and the projection of the centerline of Fletcher Street between its intersections with Orchard Street and Danforth Street: Seventy-five (75) feet.

4. In the area formed by the projection of the centerline of Fletcher Street between its intersections with Orchard Street and Danforth Street easterly to the projection of the centerline of Emery Street between its intersections with Taylor Street and Danforth Street: Seventy-five (75) feet.

5. In those areas where the maximum height may not exceed forty-five (45) feet above grade, no structure may exceed sixty-five (65) feet in height above mean sea level.

For purposes of this section, a projection of the centerline of a street shall consist of an extension of the centerline of the street to the water side boundary of the waterfront port development zone.

b. Additional bulk, height and location standards for structures exceeding forty-five (45) feet in height above grade within the waterfront port development zone:

1. The maximum horizontal diagonal measurement of portions of a structure, cluster of structures or equipment exceeding forty-five (45) feet in height above grade shall not exceed one hundred (100) feet, except that for each foot that the structure, cluster of structures or equipment is lowered from the maximum permitted height, the maximum horizontal measurement may increase by one (1) foot.

14' height
55 — guess
90' Lower Than MAX

2. In addition to any other setback requirements, portions of structur



100' MAX + 90' = 190' — MAX horizontal measurment

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 fee interest for each foot that the structure or cluster of structures exceeds forty-five (45) feet in height above grade.

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.

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.

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.

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 avigable airspace. Such a determination shall

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.®

RUBB BUILDING SYSTEMS

# TELEFAX

COMPANY:
ATTN: MIKE NUGENT
FROM: GARY SUTTON
FAX NO: 207 874 8716
NO. SHEETS: 7
REF: MERRILL 7
DATE: 6/20/05

RUBB INC.,
Sanford Airport
P.O. Box 711
Sanford, Maine 04073
Tel: (207)324-2877
Fax: (207)324-2347
E-mail: info@rubbusa.com

Sent[ ]

FIRE INFO FOR PVC

We Cover The World.®
RUBB
BUILDING SYSTEMS

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

Shelter-Rite® By Seaman Corporation

# High Performance 8028 Architectural Fabric

| 8028 Architectural Fabric | Standard | Metric |
|---|---|---|
| Base-Type Fabric-Weight | Polyester 7.5 oz/yd² | Polyester 254 g/m² |
| Finished Coated Weight ASTM D751 | 28 oz/yd² +2/-1 oz/yd² | 950 g/m² +70/-35 g/m² |
| Tongue Tear ASTM D751 | 8"x10" sample @ 12 in/min. 275/275 $lb_f$ | 20.3 cm x 25.4 cm sample @ 30.5 cm/min. 1223/1223 N |
| Trapezoid Tear ASTM D4533 | 85/85 $lb_f$ | 378/378 N |
| Grab Tensile ASTM D751 | 700/700 $lb_f$ | 3115/3115 N |
| Strip Tensile ASTM D751 Procedure B | 515/515 $lb_f$/in | 458/458 daN/5 cm |
| Adhesion ASTM D751 Dielectric Weld | 10 $lb_f$/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 $lb_f$ @ Room temp. 133 $lb_f$ @ 160° F | 5 cm seam, 4 hrs, 2.5 cm strip 1183 N @ Room temp. 591 N @ 71°C |
| Low Temperature ASTM D2136 1/8" mandrel, 4 hrs. LTC LTA | Pass -40° F Pass -67° F | Pass -40° C Pass -55° C |
| Flame Resistance | Meets California fire marshal requirements, UL214, NFPA 701, and FTMS 191 method 5903 - 2 second flameout. ASTM E84 - flame spread index <25, smoke development rating <450 | |

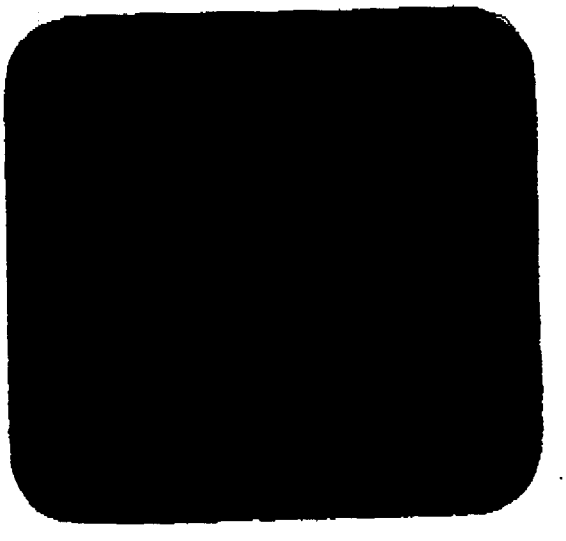


1000 VENTURE BLVD. WOOSTER. OHIO 44691 USA. U.S. Toll-Free: Phone 800-927-8578. Fax 800-649-2737

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

## Technical Specifications

| | | |
|---|---|---|
| Ease 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 135733 | 80/70 lbs |
| Grab Tensile: | ASTM 0751 | 690/620 lbs/in |
| Strip Tensile: | ASTM D5035 | 340/335 lbs/in |
| Adhesion (Seam Peel): | ASTM D751 | 15 lb/in |
| Wydrostatic 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. Roil goads can normally be slit to custom widths for a nominal charge.

Technical data is ksed 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 materiel for its intended end use.

# 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, Test Engineer — Date 7/18/91

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

# NF'PA 701 - 1996 FIRE TESTS FOR FLAME-RESISTANT TEXTI AND FILMS TEST2

**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 flour 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**

## *ES . S .*

| 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** |

**ED**

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 contains a total of two **pages.**

Servando Romo
**Fire** Test Technologist

9-21-44
Date

**Reviewed** and approved:

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

9-21-99
Date

OMEGA POINT LABORATORIES

GAGNON ENGINEERING INC.
Structural Consultants

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 CE No. of Pgs: 2 (Including Cover Page)

Re: Rubb VII Personnel Door Stairs

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



Special instructions or message:

Revised as requested.

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

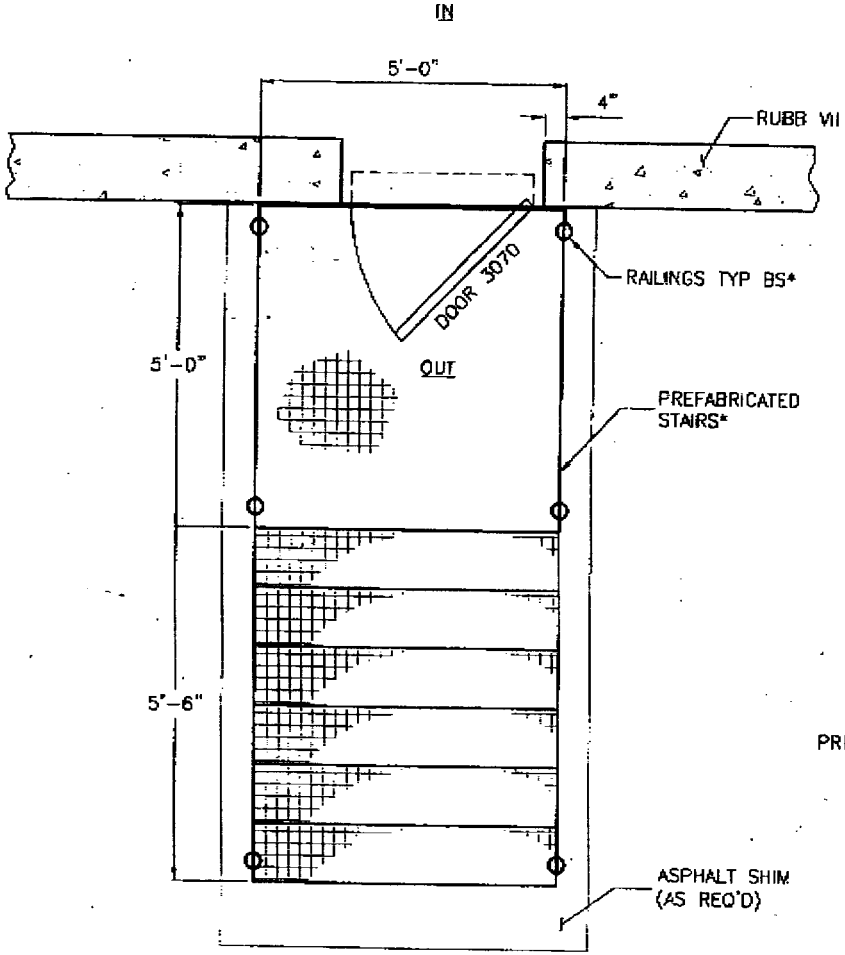
**Copied:** #407

C.C. to P.D. 846-0100

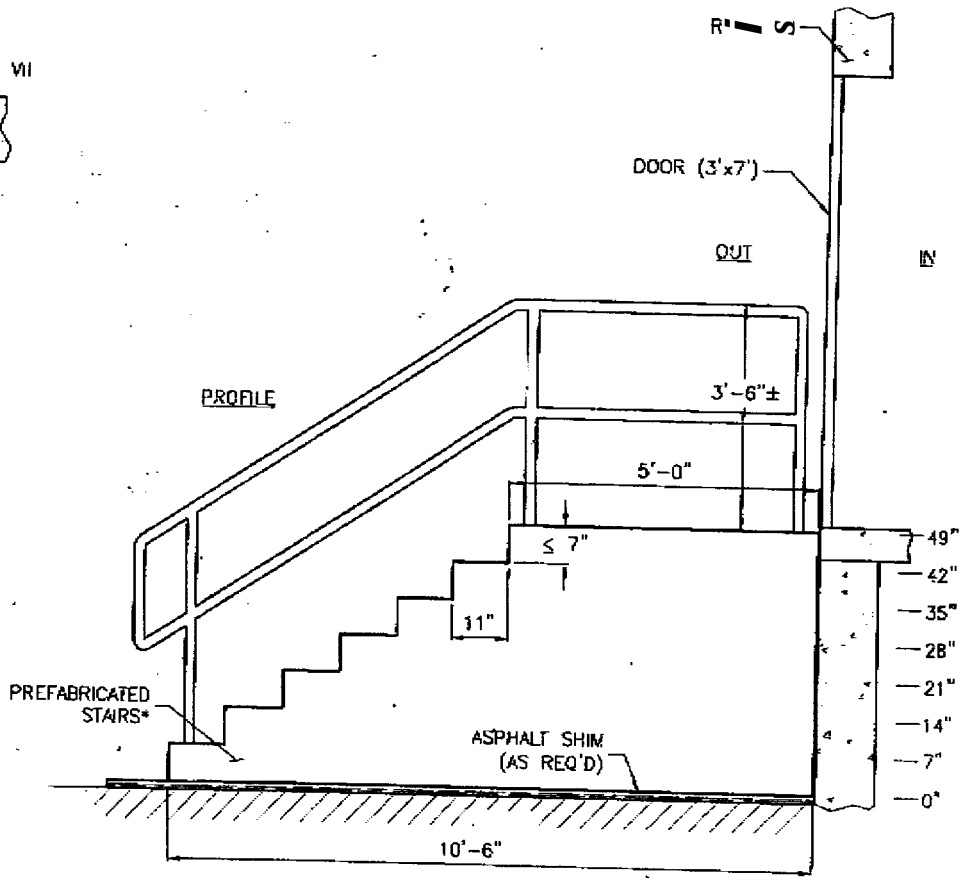
PROJECT: MERRILL MARINE TERMINAL/RUBB BUILDING VII
SUBJECT: PREFABRICATED METAL STAIRS
ITEM: PLAN & PROFILE

GAGNON ENGINEERING INC.
Structural Consultants
198 MAIN STREET
GORHAM, MAINE 04038

DATE: 06/22/05
BY: RG / JC
SHEET: 1 OF 1
PROJECT NO. 407
REV DATE: 06/24/05




PLAN
SCALE: 1/2"=1'-0"




PROFILE
SCALE: 1/2"=1'-0"

*NOTE:
STAIRS & RAILINGS SHALL COMPLY TO IBC SECTION 1009.