

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING DEPARTMENT PERMIT

Permit Number: 031171

This is to certify that City Of Portland/Lester Lloy Architects
has permission to Addition/Construction of Starbucks Kiosk
AT 947 Westbrook St Call 199 A001002

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and when permission is procured before this building or part thereof is occupied or closed-in. 24 HOUR 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. W.M.S.
Health Dept. _____
Appeal Board _____
Other _____
Department Name _____

Al J. Gust 10/16/03
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-1171	Issue Date:	CBL: 199 A001002
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Location of Construction: 947 Westbrook St	Owner Name: City Of Portland	Owner Address: 389 Congress St	Phone: 756-8029
Business Name:	Contractor Name: Lester Lloyd Architects	Contractor Address: 2 High Cliff Plymouth	Phone: 5087464646
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	Zone: AB

Past Use: Portland International Jetport	Proposed Use: Portland International Jetport w/ Starbucks kiosk	Permit Fee: \$1,596.00	Cost of Work: \$175,000.00	CEO District: 3
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: B Type: 2 10/16/03	

Proposed Project Description: Addition/Construction of Starbucks Kiosk	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature: _____ Date: _____		

Permit Taken By: gad	Date Applied For: 09/23/2003	Zoning Approval
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>OK 9/25/03</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
	<i>separate permits are required for any exterior signage</i>		

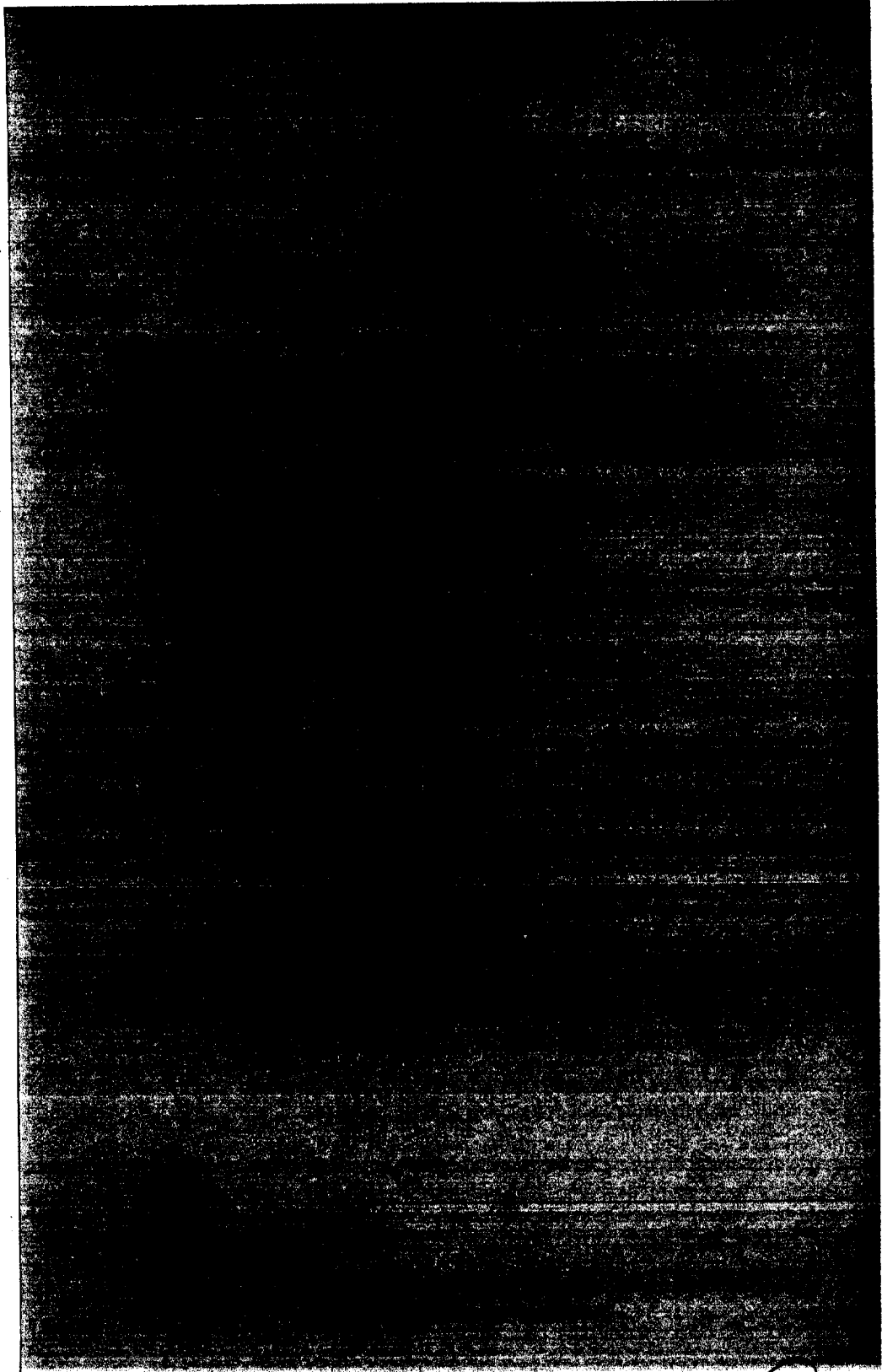
CERTIFICATION

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 _____

Zoning



Zoning info
Review Attached

03-1171

All Purpose Building Permit Application

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

Location/Address of Construction: <u>PORTLAND INT'L AIRPORT, 1001 WESTBROOK ST.</u>		
Total Square Footage of Proposed Structure <u>INTERIOR PENN - 288</u>	Square Footage of Lot <u>NA</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>209</u> Block# <u>AA</u> Lot# <u>001</u>	Owner: <u>PAUL BRAD BURY, PORTLAND INT'L AIRPORT, CITY OF PORTLAND</u>	Telephone: <u>207-758-9029</u>
Lessee/Buyer's Name (If Applicable) <u>HOST INT'L INC.</u>	Applicant name, address & telephone: <u>LESTER WOYP, WOYP ARCHITECTS, 2 HIGH CLIFF, PLYMOUTH MA 02360. 508-746-4646</u>	Cost Of Work: \$ <u>175,000.</u> Fee: \$ <u>1,596.00</u>
Current use: <u>AIRPORT, A-2</u>		
If the location is currently vacant, what was prior use: <u>NA</u>		
Approximately how long has it been vacant: <u>NA</u>		
Proposed use: <u>SMOKERS KIOSK</u>		
Project description: <u>KIOSK LOCATED IN WAITING AREA</u>		
Contractor's name, address & telephone:		
Who should we contact when the permit is ready: <u>LESTER WOYP, WOYP ARCHITECTS</u>		
Mailing address: <u>2 HIGH CLIFF, PLYMOUTH MA 02360</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: <u>508 746 4646</u>		

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

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

Signature of applicant: <u>[Signature]</u>	Date: <u>9/18/03</u>
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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

LLOYD ARCHITECTS

September 18, 2003

Two High Cliff
Plymouth, MA
02360 4315

Mike Nugent
City of Portland
Inspection Services
Portland, Maine 04101

Re: Starbucks kiosk at Portland Int'l Jetport

Dear Mr. Nugent,

Thank you for talking with us again about this Starbucks kiosk. As we discussed, I reviewed the relevant portion of the Covered Mall Building Special Use for kiosks.

That section 402.14.1 calls for the kiosk to have fire-retardant wood construction. As indicated in my previous letter, this kiosk will comply.

I also reviewed the construction materials with the fabricator. The kiosk construction is either plastic laminate or 1/16" thick wood veneer on fire-retardant treated plywood. The ceiling panels are of two types, wood veneer on fire-retardant treated plywood, and Lumasite, a fiberglass reinforced acrylic product. The veneer, the plastic laminate, and the Lumasite will have a Class III flame spread rating, although that issue is not addressed in section 402.14.1, and these materials will thus provide additional protection. Attached is information on the Class III (a.k.a. Class C) materials.

Section 402.14.2 states that any covered kiosk should be sprinkled, as is required for a covered mall building in general. This kiosk is partially covered by panels, as noted above. This area of the airport is not sprinkled, so that this kiosk will also not be sprinkled.

In my opinion, this construction complies with BOCA 1999 with respect to the fire treatment.

TEL (508) 746-4646

FAX (508) 746-1236

LLOYD ARCHITECTS

September 18, 2003

Two High Cliff
Plymouth, MA
02360-4315

Mike Nugent
City of Portland
Inspection Services
Portland, Maine 04101

Re: Starbucks kiosk at Portland Int'l Jetport

Dear Mr. Nugent,

Thank you for talking with me about the Starbucks kiosk on Wednesday. This kiosk will be built with a plywood substrate, which, as a result of our discussion, will be firetreated and so stamped. Attached is testing information for the fire treatment product the millwork manufacturer will use for all of the plywood. Any wood studs will also be firetreated.

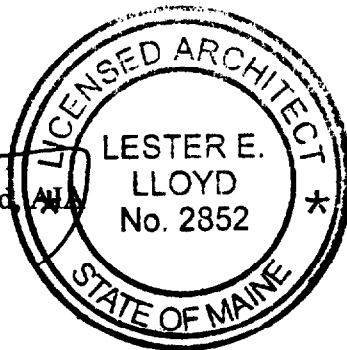
As we discussed, the kiosk will therefore not have a Class A fire rating as listed on our drawing, but instead will have all fire treated plywood and wood studs (if any).

HMS Host respectfully requests a note from you stating that this will allow them to move forward with production of the millwork in terms of meeting any fire treatment requirements (not for a permit for the entire work at this time). Is that something you could note by hand below, and fax back to me?

I appreciate your understanding and help with our schedule, and thank you again for your time.

Sincerely,


Lester Lloyd, AIA
Principal



TEL (508) 746-4646
FAX (508) 746-1236

INCP.

TESTING INFORMATION

Fire Safe Ad-108 has passed all of the tests below:

Major testing organizations have performed extensive tests on the Fire Safe Ad-108. In addition, it has been field tested and recognized for both commercial and residential use by State Fire Marshalls, and Building Officials in major metropolitan areas throughout the country.

<u>Test</u>	<u>Material Tested</u>	<u>Results</u>
	Vacum Yellow Pine Plywood	Class A Flame Spread 5
	Vacum - Pressure Yellow Pine	Class A Flame Spread 10
ASTM E84 Flame Spread	Vacum-Pressure Douglass Fir	Class A Flame Spread 15
	Vacum Douglass Fir	Class A Flame Spread 15
	Sprayed Douglass Fir	Class A Flame Spread 15
ASTM E108 Burning Brand ASTM E108 Flying Brand ASTM E108 Intermittent Flame	Sprayed Shingles 3-Year weather (200-inch Rain Simulated)	Class C
New York City Fabric Test ASTM E162	Drapories Cotton Muslin Paper/Straw Wall Coverings	Passed Class A Passed Class A Passed Class A

Testing Agencies:
 Underwriters Laboratories
 Underwriters Laboratories of Canada
 United States Testing
 Southwest Research Institute
 Southwestern Laboratories
 Factory Mutual
 Forestry Commission of New South
 Wales, Australia
 United States Forestry Department
 Ontario Research of Canada

Certifying Agencies:
 National Research Board
 (Central controlling agency
 for ICBO, BOCA, SBCCD.)

FIRE SAFE AD-108[®]

TECHNICAL DATA



PRODUCT DESCRIPTION: Phosphorescence Type

PRODUCT ANALYSIS:

Total Solids	20%
Wt. per Gallon	9.20 lbs.
Viscosity	20 second #2 Zahn @ 78 degrees F
PH	3.8-4.0
Flash Point	Nonflammable
Color	Water clear @ 78 degrees F
	Slight haze @ 50 degrees F and lower
Volatility	Nonvolatile
Solvents	Water (contains no petroleum or derivative of petroleum)
Antifungus	Excellent resistance
Bacterial	Mildly resistance
Linear Shrinkage	None
Moisture absorption	None
Corrosive	None
Toxic	None
Not harmful to plants, Preservative for Wood, insects, rodents, aspergilli and Other types of molds.	Excellent resistance

RECOMMENDED USE:

Fire Safe AD-108 is a fire retardant and wood preservative. It can be used on any type of wood or porous materials.

Yellow Pine	Draperies
Douglas Fir	Cotton Muslin
Cedar	Paper/Straw
Redwood	Wall Covering

ENVIRONMENTAL REGULATION:

This complies with U.S. Federal regulations concerning use of lead in paint and also concerning Hydrocarbon emissions.

FEDERAL SPECIFICATIONS:

Interim Federal Specifications T.T.P. 001932 G.S.A. -- F58 January 1976 cover paint, latex base interior, white, tints and black fire retardants. Fire Safe meets this specification.

AD-108 also meets the Mine Safety and Health Administration Regulations and Standard for Fire Prevention and Control of Mine Entrances 1-1-80, C.F.R., Sec. 57-4-82.

SURFACE PREPERATION:

Surface must be free of grease, dirt, rust and loose powdery paint.

SEP-16-2003 03:22P FROM:

TO:19043532910



FIRE SAFE OF TAMPA, INC. PHONE: 813-422-8641

AD-108 FIRE RETARDANT®

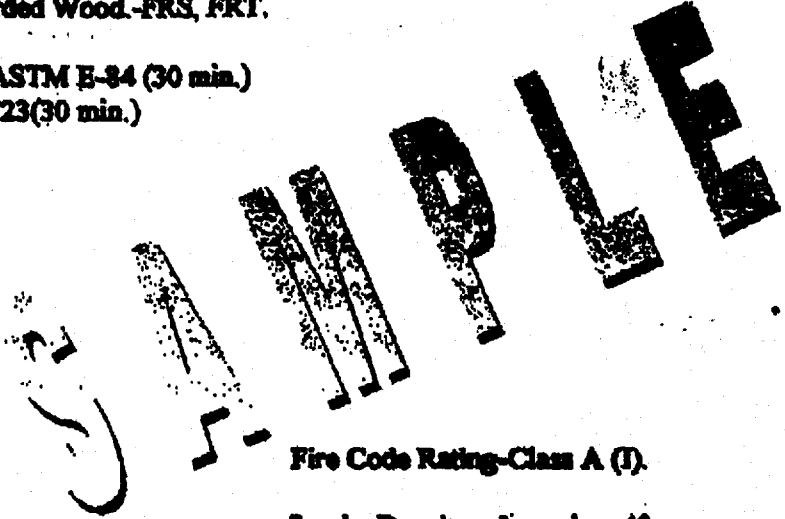
9611 E. Hillsborough Ave., Tampa, FL, 33610

Certificate of Treatment

NO. 509

This hereby certifies that The ABC Lumber Yard, Anywhere, FL has been pressure treated with Fire Safe, AD 108 in accordance with the manufacturers recommendations for proper application and complies with the appropriate FIRE CODES regarding Fire Retarded Wood.-FRS, FRT.

Ref:ASTM E-84 (30 min.)
UL-723(30 min.)



Fire Code Rating-Class A (I).

Smoke Density— Less than 40

Life—Permanent

Applicator: 1025

Date: April 3, 2003

Approved
Chris Ryan
Vice President

LLOYD ARCHITECTS

Two High Cliff, Plymouth, MA 02360-4315

LETTER OF TRANSMITTAL

DATE: September 18, 2003
ATTN: Mike Nugent
AT: Inspections Services Manager, City of Portland
FROM: Lester Lloyd, Robert T. Kuhn
RE: Starbucks Coffee kiosk, Portland International Jetport, Portland, ME &
Shipyard Brewery, Portland International Jetport, Portland, ME

REMARKS:

For Starbucks:

Quantity	Date	Item No.	Item Description
1	8/29/03	A1.1	Construction drawing (11x17" drawings)
1ea	8/27/03	E1.1, E1.2	Electrical drawings (11x17" drawings)
1ea	7/31/03	A1.0, A3.1, A3.2, A3.3, A4.0, A5.0, A6.0, A6.1, A6.2, SC1, SC2, E1.0, E2.0, E2.1, E3.0, P1.0, P2.0, P3.0 & P4.0	Drawings by Starbucks Coffee Co. ((11x17" drawings)
1ea	8/12/03	12 total drawings	Construction drawings by Load King (11x17" drawings)
1ea	9/18/03		Building Permit Application (with check)

For Shipyard Brewery:

Quantity	Date	Item No.	Item Description
1ea	9/5/03	A1.1 & A1.2	Construction drawings (11x17" drawings)
1ea	9/18/03		Building Permit Application (with check)

TEL (508) 746-4646
FAX (508) 746-1236
✉ LL@LloydArch.com

(Page 2 of 7)

L SCOPE

This report contains the reference to the test method, purpose, test procedure, rounding procedures, preparation and conditioning of specimens, description of materials, test and post test observation data, and test results.

M TEST METHOD

The test was conducted in accordance with ASTM E 84, "Standard Test Method for Surface Burning Characteristics of Building Materials." The 25-foot tunnel method is also described by NFPA 285 and UL 723.

N PURPOSE

The purpose of the test is to determine the relative performance of the test material under standardized fire exposure. Results are given for Flame Spread and Smoke Developed Index. The values obtained from burning the test material represent a comparison with that of 1/4 inch inorganic reinforced cement board expressed as zero and Red oak flooring expressed as 100.

The flame spread results of 25-foot tunnel tests are frequently used by building code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is epitomized by the National Fire Protection Association Life Safety Code, NFPA 101:

Class A*	0 - 25 flame spread	0-400 smoke developed
Class B*	26 - 75 flame spread	0-450 smoke developed
Class C*	76 - 200 flame spread	0-480 smoke developed

*Class A, B and C correspond to I, II and III, respectively, in other codes such as UBC and BOCA.

This flame spread classification system is based on the premise that the higher the flame spread numbers, the greater the fire spread potential. The actual relationship between the numbers developed under this test and life safety from fire has not been adequately established.

IV. TEST PROCEDURE NOTES

The furnace was preheated to a minimum of 160°F as measured by an 18 AWG thermocouple embedded in cement 1/8 inch below the floor surface of the chamber, 22-1/4 feet from the centerline of the ignition burners. The furnace was then cooled to 105°F (± 5°F) as measured by a thermocouple embedded 1/8 inch below the floor surface of the test chamber 13 feet from the fire end.

Prior 10-minute tests with 1/4 inch inorganic reinforced cement board provided the zero reference for flame spread. Periodic 10-minute tests with unfinished select grade red oak flooring provided for the 100 reference for flame spread and smoke developed as noted in Section III.

TESTER

*Attn: Lester Lloyd
508-746-1236*

P. 01

AMERICAN ACRYLIC CORPORATION

BULLETIN 972

**BURNING CHARACTERISTICS OF LUMAAsite®
REINFORCED-ACRYLIC SHEETS AND DIFFUSERS**

These are the panels we use.

This bulletin describes the burning characteristics of LUMAAsite® reinforced acrylic sheets and diffusers both the general purpose (GP) and the fire-retardant (FR) versions are described.

LUMAAsite® general purpose panels incorporate fiberglass reinforcement (about 25% by wt.) and acrylic polymer. The general purpose panel in 1/8-inch thickness classifies as a CC2 material, which means that it exhibits a burning rate of less than 2-1/2 inches per minute when tested by the ASTM D - 635 method.

LUMAAsite® fire-retardant panels incorporate the same amount of fiberglass reinforcement, and are not readily distinguished from GP panels. However, the acrylic resin is modified to impart fire-retardance using an innovative system that also results in low smoke development.

LUMAAsite® fire-retardant panels classify as a CC 1 material, which means that they self-extinguish when tested by the ASTM D - 635 method.

In addition, fire-retardant panels in 1/8-inch thickness fall into a Class C category (NFPA 255) which means they exhibit a flame spread of less than 200 and a smoke development of less than 460 when tested by the ASTM D - 84 method. Actual test values White 1000-SOS FR in 1/8-inch thickness were 185 (flame spread) and 175 (smoke development).

It is also relevant to note that LUMAAsite® panels (both GP and FR) do not drip resin or burning polymer during these tests. Although these test results do not reflect the behavior of LUMAAsite® sheets and diffusers in all fire situations, these results can be helpful to material specifiers and code authorities.

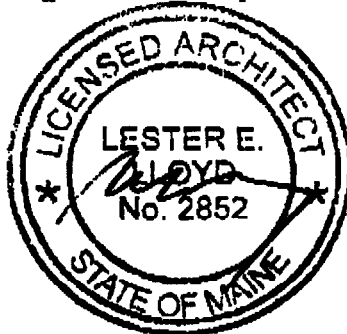
Note that this information applies to reinforced acrylic varieties of LUMAAsite® sheets and diffusers, including the Frost-SOS, Parchment-SOS, Rice-SOS, and White 1000-SOS diffuser varieties. This information does not apply to "Crystal" varieties of LUMAAsite® sheets.

I appreciate your understanding and help with our schedule, and thank you again for your time. Would you let us know if you have questions with which we may help during the course of your review?

Sincerely,

Lester Lloyd, AIA
Principal

enclosures



LLOYD ARCHITECTS

September 18, 2003

Two High Cliff
Plymouth, MA
02360-4315

Mike Nugent
City of Portland
Inspection Services
Portland, Maine 04101

Re: Starbucks kiosk at Portland Int'l Jetport

Dear Mr. Nugent,

Thank you for talking with us again about this Starbucks kiosk. As we discussed, I reviewed the relevant portion of the Covered Mall Building Special Use for kiosks.

That section 402.14.1 calls for the kiosk to have fire-retardant wood construction. As indicated in my previous letter, this kiosk will comply.

I also reviewed the construction materials with the fabricator. The kiosk construction is either plastic laminate or 1/16" thick wood veneer on fire-retardant treated plywood. The ceiling panels are of two types, wood veneer on fire-retardant treated plywood, and Lumasite, a fiberglass reinforced acrylic product. The veneer, the plastic laminate, and the Lumasite will have a Class III flame spread rating, although that issue is not addressed in section 402.14.1, and these materials will thus provide additional protection. Attached is information on the Class III (a.k.a. Class C) materials.

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In my opinion, this construction complies with BOCA 1999 with respect to the fire treatment.

TEL (508) 746-4646

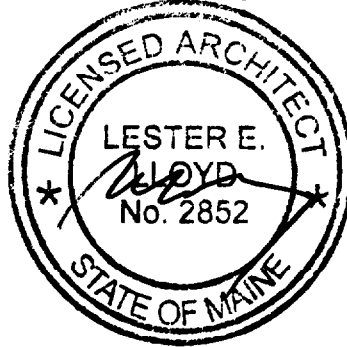
FAX (508) 746-1236

I appreciate your understanding and help with our schedule, and thank you again for your time. Would you let us know if you have questions with which we may help during the course of your review?

Sincerely,

Lester Lloyd, AIA
Principal

enclosures





29545 Eld Road Bu

PO Box 1037

Eugene Oregon 9740

800 626 981

541 688 1871

541 689 7490 Fax

To Whom This May Concern:

As per your request, this is to certify that prefinished wall paneling, wholly manufactured by States Industries carries a class "C" fire rating, ASTM E-84-81a 76 to 200 class.

Additionally, those same panels are certified by the Hardwood Plywood & Veneer Association to meet H.U.D. standards for formaldehyde emission of 0.2 parts per million in large chamber testing (FTM2) loaded at a rate of 0.29 square foot per paneling per cubic foot of area.

Unfinished hardwood plywood and veneer, overlaid particleboard, or medium density fiberboard are also certified to meet H.U.D. standards for formaldehyde emissions 0.3 parts per million with a loading rate of 0.13 square foot of panels per cubic foot of area. Unfinished industrial panels also carry a class "C" fire rating.

Sincerely,

Diane J. Montoya
President
States Industries

(Page 2 of 7)

L. SCOPE

This report contains the reference to the test method, purpose, test procedure, rounding procedures, preparation and conditioning of specimens, description of materials, test and post test observation data, and test results.

R. TEST METHOD

The test was conducted in accordance with ASTM E 84, "Standard Test Method for Surface Burning Characteristics of Building Materials." The 25-foot tunnel method is also described by NFPA 255 and UL 723.

W. PURPOSE

The purpose of the test is to determine the relative performance of the test material under standardized fire exposure. Results are given for Flame Spread and Smoke Developed Index. The values obtained from burning the test material represent a comparison with that of 1/4 inch inorganic reinforced cement board expressed as zero and red oak flooring expressed as 100.

The flame spread results of 25-foot tunnel tests are frequently used by building code officials and regulatory agencies in the acceptance of interior finish material for various applications. The most widely accepted classification system is epitomized by the National Fire Protection Association Life Safety Code, NFPA 101:

Class A*	0 - 25 flame spread	0-450 smoke developed
Class B*	26 - 75 flame spread	0-450 smoke developed
Class C*	76 - 200 flame spread	0-450 smoke developed

*Class A, B and C correspond to I, II and III, respectively, in other codes such as UBC and BOCA.

This flame spread classification system is based on the premise that the higher the flame spread numbers, the greater the fire spread potential. The actual relationship between the numbers developed under this test and life safety from fire has not been adequately established.

IV. TEST PROCEDURE NOTES

The furnace was preheated to a minimum of 150°F as measured by an 18 AWG thermocouple embedded in cement 1/8 inch below the floor surface of the chamber, 28-1/4 feet from the centerline of the ignition burners. The furnace was then cooled to 105°F (± 5°F) as measured by a thermocouple embedded 1/8 inch below the floor surface of the test chamber 13 feet from the fire end.

Prior 10-minute tests with 1/4 inch inorganic reinforced cement board provided the zero reference for flame spread. Periodic 10-minute tests with unfinished select grade red oak flooring provided for the 100 reference for flame spread and smoke developed as noted in Section III.

TBP:1/2003

Attn: Lester Lloyd
508-746-1236

P.01

AMERICAN ACRYLIC CORPORATION

BULLETIN 97 2

**BURNING CHARACTERISTICS OF LUMAsite[®]
REINFORCED-ACRYLIC SHEETS AND DIFFUSERS**

These are the panels we use.

This bulletin describes the burning characteristics of LUMAsite[®] reinforced acrylic sheets and diffusers both the general purpose (GP) and the fire-retardant (FR) versions are described.

LUMAsite[®] general purpose panels incorporate fiberglass reinforcement (about 25% by wt.) and acrylic polymer. The general purpose panel in 1/8-inch thickness classifies as a CC2 material, which means that it exhibits a burning rate of less than 2-1/2 inches per minute when tested by the ASTM D - 635 method.

LUMAsite[®] fire-retardant panels incorporate the same amount of fiberglass reinforcement, and are not readily distinguished from GP panels. However, the acrylic resin is modified to impart fire-retardance using an innovative system that also results in low smoke development.

LUMAsite[®] fire-retardant panels classify as a CC 1 material, which means that they self-extinguish when tested by the ASTM D - 635 method.

In addition, fire-retardant panels in 1/8-inch thickness fall into a Class C category (NFPA 255) which means they exhibit a flame spread of less than 200 and a smoke development of less than 450 when tested by the ASTM D - 84 method. Actual test values White 1000-SOS FR in 1/8-inch thickness were 185 (flame spread) and 175 (smoke development).

It is also relevant to note that LUMAsite[®] panels (both GP and FR) do not drip resin or burning polymer during these tests. Although these test results do not reflect the behavior of LUMAsite[®] sheets and diffusers in all fire situations, these results can be helpful to material specifiers and code authorities.

Note that this information applies to reinforced acrylic varieties of LUMAsite[®] sheets and diffusers, including the Frost-SOS, Parchment-SOS, Rice-SOS, and White 1000-SOS diffuser varieties. This information does not apply to "Crystal" varieties of LUMAsite[®] sheets.