





**CLIENT: TILE TECH PAVERS**  
Report No.: RJ3515-1  
September 23, 2014  
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**PREPARATION:** Sufficient sample material was submitted to conform to tunnel test dimensions, 22" wide by 24' feet long.

**CONDITIONING:** The test specimen was conditioned to a constant weight at a temperature of 73.4 ± 5° F (23 ± 2.8° C) and a relative humidity of 50 ± 5 %.

**CEMENT BOARD PLACEMENT:** The 1/4" cement boards were placed between the test specimen and the chamber lid

**E 84 TEST DATA SHEET:**

**CLIENT:** TILE TECH PAVERS **DATE:** 09/23/14

**SAMPLE:** Ipe Deck Boards

**FLAME SPREAD:**

**IGNITION:** 1 minute, 15 seconds.

**FLAME FRONT:** 9 feet maximum.

**TIME TO MAXIMUM SPREAD:** 9 minutes, 47 seconds

**TEST DURATION:** 10 minutes.

**CALCULATION:** 38.35 x 0.515 = 19.75

**OBSERVATIONS:** Charring.

**SUMMARY: FLAME SPREAD:** 20

**SMOKE DEVELOPED:** 400

**SUMMARY OF ASTM E84 RESULTS:** Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50. In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	A	0 through 25	Less than or equal to 450
B	B	26 through 75	Less than or equal to 450
C	C	76 through 200	Less than or equal to 450

**BUILDING CODES CITED:**

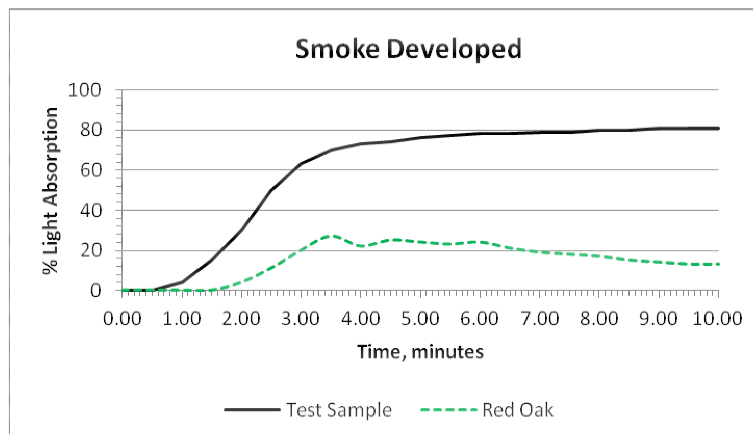
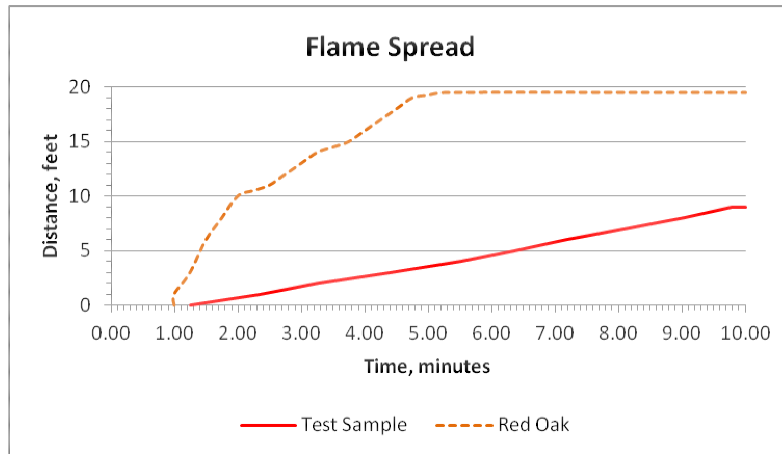
1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code".
2. International Building Code, Chapter 8, Interior Finishes, Section 803.

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DEPARTMENT OF BUILDINGS

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DEC 13

Siun Derkhidam  
Assistant Mechanical Engineer  
Materials and Equipment  
Acceptance Division  
(646) 248-8333  
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MR. Donald Fisher  
575 8th Ave 22<sup>nd</sup> fl  
N.Y. N.Y 10018

Date: NOV/26/01

Dear Applicant:

Enclosed is a final official signed copy of MEA acceptance of your product(s).  
MEA 220-01-M which you may use as proof of your product(s) acceptance in  
New York City.

This document together with proper labeling and installation in accordance with New  
York City Building Code will enable the inspector to know that the product(s) installed is (are)  
legal.

All shipments and deliveries of accepted materials to the job site are required to be  
labeled or tagged in accordance with the format below:

Accepted For Use City of New York Department of Buildings MEA - -
--

Company Name

Very truly yours,

*Siun Derkhidam*  
Siun Derkhidam  
Assistant Mechanical Engineer  
Materials and Equipment Acceptance

CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

MEA 220-01-M

Report of Material and Equipment Acceptance Division

Manufacturer - Timber Holding, Ltd., 2400 West Cornell Street, Milwaukee, Wisconsin 53209.

Trade Name - Ironwood.

Product - Naturally fire retardant wood.

Pertinent Code Section(s) - 27-328.

Test(s) - RS 5-5 (ASTM E84).

Laboratory - Shimel and Sor Testing Laboratories, Inc.

Test Report(s) - Report No. 89-8007 dated December 18, 1989.

Description - Naturally fire retardant wood identified as "Tabebuï SPP" was tested in Shimel and Sor Testing Laboratories, Inc. for the following:

Strength Properties: ASTM-D143

Surface Burning Characteristics: ASTM-E84

Specific Gravity and Unit Weight: ASTM-D143

TEST RESULTS

1. Physical Properties

<u>Property</u>	<u>Results (*)</u>
Bending Strength, psi	10,309
Compression parallel to grain, psi	12,100
Compression perpendicular to grain, psi	2,981
Shear Parallel to grain, psi	1,245
Modulus of Elasticity, psi	3,312,000
Unit Weight, as received, pcf	66.4
Unit Weight, after oven drying, pcf	60.5

(\*) Each test result is the average of three specimens.



2. Surface Burning Characteristics

<u>Type of Test</u>	<u>Results</u>
Flame Spread (10 minutes)	0
Flame Spread (30 minutes)	5
Smoke Developed Values (10 minutes)	3
Fuel Contribution (10 minutes)	0

Note: Toxicity test was not performed.

Recommendation - That the above described naturally fire retardant wood be accepted as complying with the requirements of Code Section 27-328 as fire retardant wood with a flame spread rating of 25 or less, classification of "A", with a smoke developed rating of 25 or less, for outdoor installation, under the following conditions:

1. Use of described materials shall be in conformance with Code Section 27-328 and the additional Code Sections covering the specific intended use.
2. The materials shall bear the identification of a testing laboratory or agency certifying to conformance with the production and performance requirements enumerated in the prescribed Code Reference Standard.
3. The acceptance of these materials is limited to combustible classification in accordance with flame spread and smoke developed only but does not include fire resistance rating. Structural and other requirements shall be in compliance with code provisions applicable to the specific application.
4. All shipments and deliveries of such materials shall be accompanied by a certificate or label, certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Article 27-131 of the Building Code.

Final Acceptance NOV/26/01

Examined By S. Decker