

Test Report No. AJFS1904002638FF-01 Date: APR.22, 2019 Page 1 of 6

ANJI JUNLAN BAMBOO & WOOD INDUSTRY CO., LTD

XINGSHANGTANG VILLAGE, HANGGAI TWON, ANJI COUNTY, ZHEJIANG PROVINCE

THIS TEST RESULT IS COPIED FROM THE TEST REPORT No.: AJFS1904002638FF, DATE: APR.19, 2019.

The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

Sample Description: TEST MATERIAL IS AMBOOO DECK, 2032×140×20mm

Color: COFFEE

Thickness: 20 mm

Composition: AMBOOO DECK

Buyer: GERMANY

Country of Destination: USA

Other Info: TEST MATERIAL IS AMBOOOO DECK, 2032×140×20mm, COLOR: COFFEE, GRANIT

GREY, WHITE OAK

Style/Item No.: /

Test Requested:

To determine the flame spread index (FSI) and smoke-developed index (SDI) of the sample's surface burning characteristics when it is subjected to the conditions of specified in ASTM E84-2018 "Standard Test Method for Surface Burning Characteristics of Building Materials"

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : APR.02, 2019

Test Performing Date : APR.02, 2019 TO APR.15, 2019

Signed for and on behalf of SGS-CSTC Co., Ltd. Anji Branch





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I. TEST CONDUCTED

This test was conducted in accordance with ASTM E84-2018 Standard Test Method for Surface Burning Characteristics of Building Materials.

II. INTRODUCTION

The method, designated as ASTM E84-2018, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

III. TEST PROCEDURE

The tunnel is preheated to $65.6^{\circ}\text{C}(150^{\circ}\text{F})$, as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to $40.6^{\circ}\text{C}(105^{\circ}\text{F})$, as measured by the floor-embedded thermocouple located 3.96m (13 ft) from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7.32m (24 ft) long, 304.8mm (12 in) above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 min·ft, FSI = 0.515·A; if greater, FSI = 4900/(195-A). Smoke developed is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, arbitrarily established as 0 and 100, respectively.

IV. CONDITIONING

Prior to testing, the sample was conditioned,

To a constant weight at a temperature of 23±2.8°C (73.4±5°F) and at a relative humidity of 50±5%

To be continued....



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V. SAMPLE DETAILS

Sample description	Yellow board
Color / Density	Yellow / 1218 kg/m³

Exposed face:

The front face

MOUNTING METHODS:

The specimen was self-supporting and placed directly on the inner ledges of the tunnel.

The specimen consisted of 3 pieces of 600mm wide×2440mm long×20.2mm thickness and all sections jointed end-to-end.

TEST RESULTS

FSI	SDI
30	250

RATING:

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.3 "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, ASTM E84, UL 723 "Method of Test of Surface Burning Characteristics of Building Materials".

International Building Code, Chapter 8, Interior Finishes, Section 803 "Wall and Ceiling Finishes", was classified in accordance with ASTM E 84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

To be continued....



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The classifications are as follows:

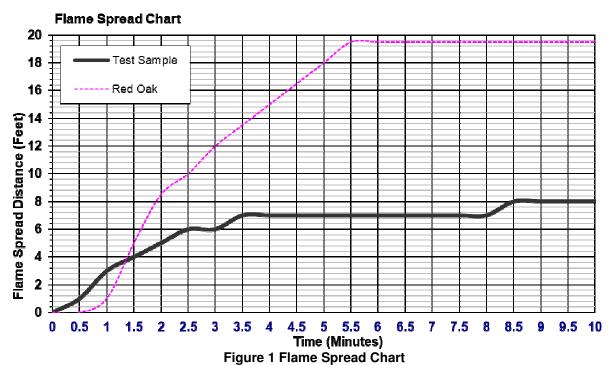
	Class A	Class B	Class C
Flame Spread Index	0-25	26-75	76-200
Smoke-developed Index	0-450	0-450	0-450

Since the tested sample received a Flame Spread Index 30 and a Smoke-developed Index 250, it would meet the requirement of Class B interior Wall & Ceiling Finish Category.

OBSERVATIONS

Time to ignition (sec)	10
Time to Max. FS (sec)	510
Maximum FS (feet)	8

GRAPHICAL RESULTS:



To be continued....



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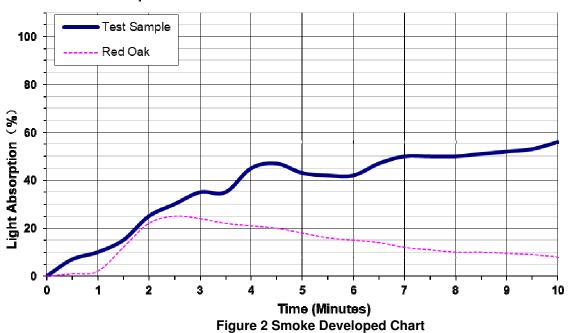


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Smoke Developed Chart



WARNING:

The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support. Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

STATEMENT:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

To be continued....



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Photo Appendix:



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End of Report



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