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WOODBRID LLC
FIRE TEST REPORT

SCOPE OF WORK
ASTM E84 TESTING ON DECKING BOARD TEST ASTM E84

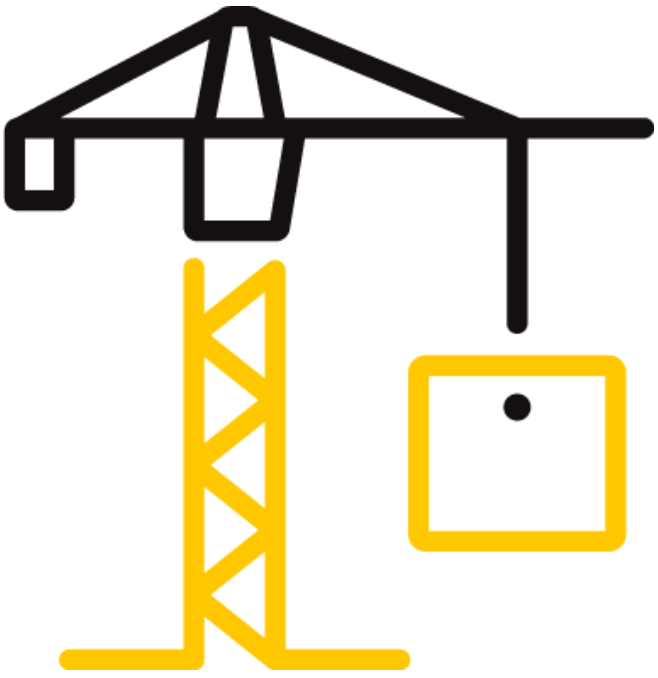
REPORT NUMBER
105193263SAT-001

TEST DATE
September 29, 2022

ISSUE DATE
September 30, 2022

PAGES
11

DOCUMENT CONTROL NUMBER
RT-R-AMER-Test-2780 (9/19/18)



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TEST REPORT FOR WOODBRID LLC
Report No.: 105193263SAT-001
Date: September 30, 2022

REPORT ISSUED TO

Woodbrid, LLC
2933 Rosa Ave
El Paso, TX
79905 USA

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by **Woodbrid LLC**, 2933 Rosa Ave., El Paso, TX 79905 USA, to evaluate the flame spread and smoke developed properties of **"Decking Board Test ASTM E84"**. Testing was conducted at the Intertek B&C test facility in Elmendorf, Texas. Results obtained are tested values and were secured by using the designated test method(s). A summary of test results and the complete graphical test data is reported herein.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

This report does not constitute performance certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

For INTERTEK B&C:

COMPLETED BY:	Bryan Lopez	**REVIEWED BY:**	Servando Romo
TITLE:	Technician I	**TITLE:**	Project Engineer
SIGNATURE:		**SIGNATURE:**	
DATE:	September 30, 2022	**DATE:**	September 30, 2022

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SECTION 2
SUMMARY OF TEST RESULTS

Specimen I.D.: Decking Board Test ASTM E84

ASTM E84 Test Results

FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
25	400

*See Section 8 for additional information and commentary

SECTION 3
TEST METHOD

The specimen was evaluated in accordance with the following:
ASTM E84-21a**,** *Standard Test Method for Surface Burning Characteristics of Building Materials*

There were no deviations from the requirements prescribed in ASTM E84-21a.

SECTION 4
MATERIAL SOURCE/INSTALLATION

The test specimen was submitted to Intertek directly from the client. Samples were not independently selected for testing. Intertek has not verified the composition, manufacturing techniques or quality assurance procedures. The specimen, identified as "**Decking Board Test ASTM E84"**, was received in good order at the Evaluation Center on September 28, 2022 and given identification number SAT2209280827-001.

SECTION 5
LIST OF OBSERVERS

NAME	COMPANY
Bryan Lopez	Intertek B&C

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SECTION 6
TEST PROCEDURE

This report describes the results of testing conducted in accordance with ASTM E84-21a, Standard Test Method for Surface Burning Characteristics of Building Materials. The test method is for comparative surface burning behavior of building materials by determining a flame spread index (FSI) and a smoke developed index (SDI). This test is generally applicable to exposed surfaces, such as finish materials for ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

> *"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."* – ASTM E84-21a Sections 1.4 – 1.5

The purpose of the method is to determine the relative burning behaviour 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.

It is the expressed intent of the test method to provide only comparative measurements of surface flame spread and smoke density of the tested material against measurements for select grade red oak flooring and fiber-cement board when tested under specific fire exposure conditions. The test method exposes a nominal 24-ft (7.32-m) long by 20-in. (508-mm) wide test specimen to a controlled air flow and flaming fire exposure adjusted to produce a specific flame spread distance vs time calibration using select grade red oak flooring.

The test method does not provide information regarding heat transmission through the tested surface, the effect of aggravated flame spread behaviour resulting from the proximity of combustible walls and ceilings, or the classification or definition of materials as non-combustible using flame spread index alone.

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

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SECTION 7
TEST SPECIMEN DESCRIPTION

SPECIMEN I.D.*	Decking Board Test ASTM E84
CONDITIONING TIME	1 days
SPECIMEN LENGTH	24 ft. (6, 4-ft. long sections)
SPECIMEN WIDTH	22.5 in.
THICKNESS	1.0 in.
TOTAL WEIGHT	128 lbs.
SIDE TO FLAME	Ribbed side to flame
SUPPORT USED*	The sample was supported with rods and wire mesh.
MOUNTING METHOD	The sample consisted of individual panels secured together using metal backstraps to make 4ft. long deck panels. Two backstraps were used for each panel.
CEMENT BOARD	1/4 in. thick fiber cement board was placed on top of the sample.

*From the client's material description and/or instructions

Note: Specimens were conditioned as per the requirements of Section 6.4 of ASTM E84-21a.

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SECTION 8
TEST RESULTS

TEST RESULTS	
Test Date	September 29, 2022
Test Operator	Bryan Lopez
Flame Spread Index (FSI)	25
Smoke Developed Index (SDI)	400

TEST DATA	
FSI (unrounded)	27.1
SDI (unrounded)	395.2
FS * Time Area (Ft * Min)	52.7
Smoke Area (% * Min)	303.9
Total Fuel Burned (Cubic Ft.)	42.75
Max Flame Front Advance (Ft.)	13.9
Time to Max Flame Front (sec)	598
Max Temp At Exposed T/C (°F)	717
Time To Max Temp (sec)	598

TEST OBSERVATIONS	
Ignition Time	0:58 Minutes: Seconds
Sagging	8:00 Minutes: Seconds
After Flame	0:60+ Minutes: Seconds
Observations After the Test:	
0 – 8 ft.	Surface Char/Sagging
8 – 24 ft.	Surface Char

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SECTION 8 (Continued)
TEST RESULTS

COMMENTARY ON CLASSIFICATION
Neither ASTM E84 nor UL 723 include classification criteria for the results obtained from testing. The International Building Code® (IBC), NFPA 101: Life Safety Code® (NFPA 101), and NFPA 5000: Building Construction and Safety Code® (NFPA 5000) all describe a set of classification criteria required for interior wall and ceiling finish materials based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. The classification criteria for all three model codes is the same:

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

Note that classification under this scheme for interior wall and ceiling finishes does not strictly apply to all products or materials tested in accordance with ASTM E84 or UL 723 because not all products or materials are recommended or suitable for use as interior wall or ceiling finish materials in buildings, regardless of the surface burning characteristics. Consult with the product manufacturer and the local authority having jurisdiction (AHJ) regarding specific applications of a given product or material.

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SECTION 9
PHOTOGRAPHS

Photo No. 1
Exposed Surface of the Test Specimen (Pre-test)

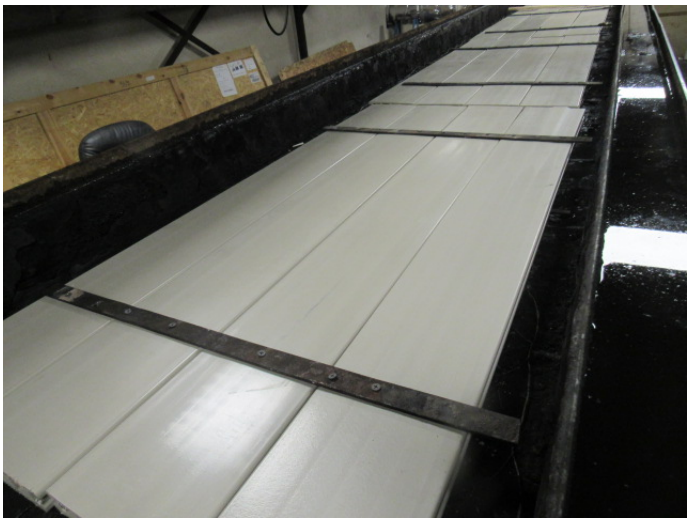

Photo No. 2
Unexposed Surface of the Test Specimen (Pre-test)

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SECTION 9
PHOTOGRAPHS (CONTINUED)

Photo No. 3
Unexposed Surface of the Test Specimen (Post-test)

Photo No. 4
Exposed Surface of the Test Specimen (Post-test)

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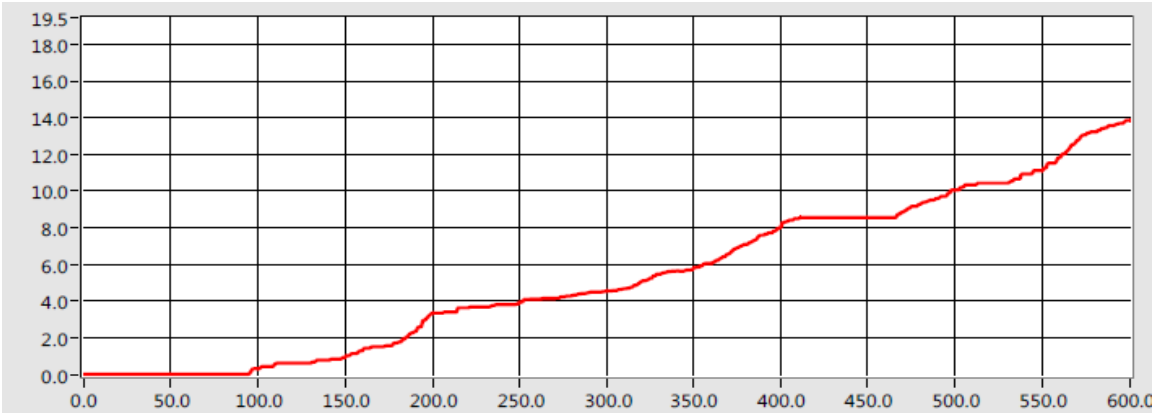
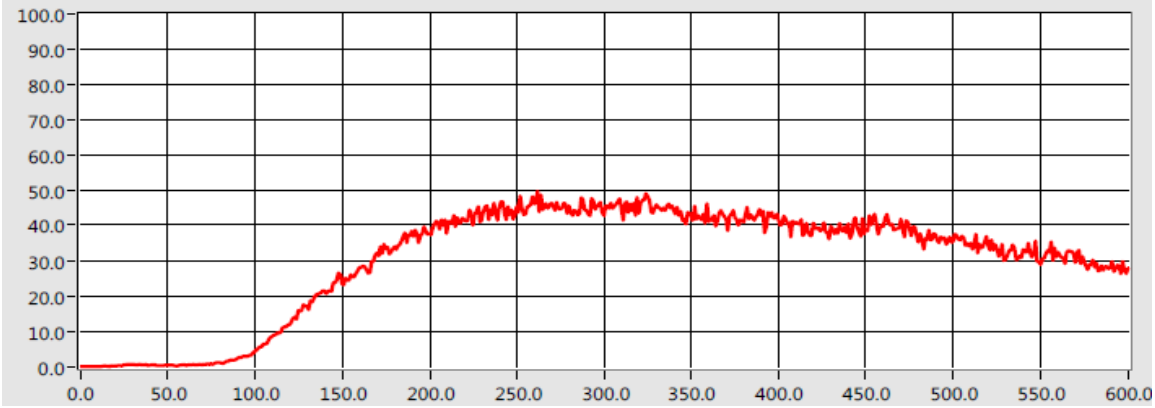
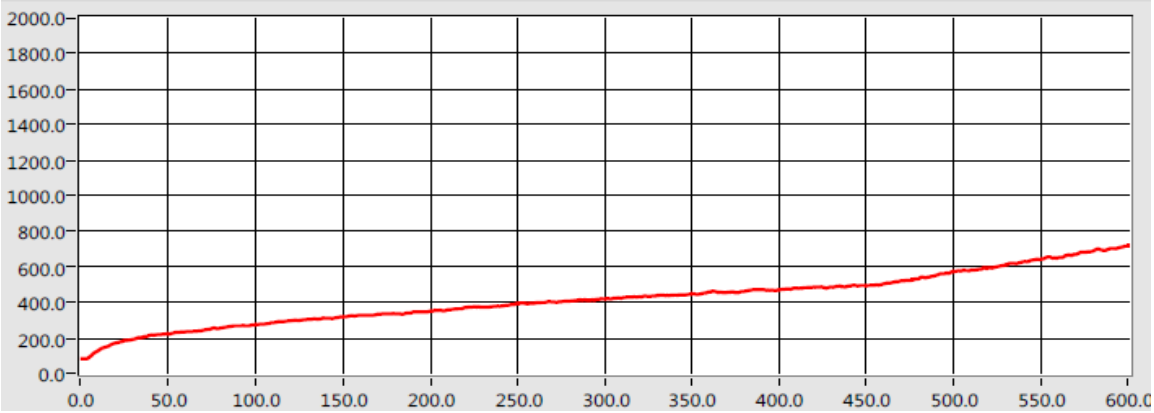
SECTION 10
GRAPHS



Graph No. 1 - Flame Spread Distance Versus Time



Graph No. 2 – Light Obscuration Versus Time



Graph No. 3 – Tunnel Air Temperature Versus Time

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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	September 30, 2022	N/A	Original Report Issue