VEGAN WOOD PRIVATE LIMITED

RS.NO. 161/163 BH. RANGPAR BUS STOP, NH-27, KANDALA- CHOTILA HIGHWAY AT. RANGAPR.PO-JALIDA WANKANER -363621, DIST.- MORBI (GUJARAT) INDIA

Sample Name: VEGAN WOOD BOARD (NWFC)

SGS Ref No.: SHIN2410002527CM01

Style/Item No.: /

Manufacturer: VEGAN WOOD PRIVATE LIMITED

The above 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 arising therefrom. Results apply to the sample as received.

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Test Requested:

ASTM E84-2023d Standard Test Method for Surface Burning Characteristics of Building Materials.

Test Results: -- See attached sheet –

Test Period:

Sample Receiving Date	:	OCT.21, 2024
Test Performing Date	:	OCT.21, 2024 TO OCT.29, 2024

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

Echo Li
Approved Signatory

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I. Test conducted

This test was conducted in accordance with ASTM E84-2023d Standard Test Method for Surface Burning Characteristics of Building Materials.

II. Introduction

The method, designated as ASTM E84-2023d, 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℃(150°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℃(105°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 30 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 ft·min, FSI = 0.515·A; if greater, FSI = 4900/(195-A).

The test results for smoke shall be plotted and the area under the curve shall be divided by the area under the curve for heptane, multiplied by 100, and rounded to the nearest multiple of five to establish a numerical smoke-developed index (SDI).

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%.

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Sample details

Sample description	Vegan Wood Board (NWFC) (provided by client)
Color	Wood color
Thickness	10.0mm
Area density	7.0 kg/m^2
Exposed face	Any surface

Mounting methods:

The 20-gage, 2-in. (51-mm) hexagonal galvanized steel netting should span the width of the tunnel, then the specimen shall be placed on the netting.

The specimen is consisted of 6 pieces of 515mm wide by 1220mm long.

Test results:

Flame Spread Index, FSI	Smoke-developed Index, SDI
20	400

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 ASTM E84 or 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 E84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

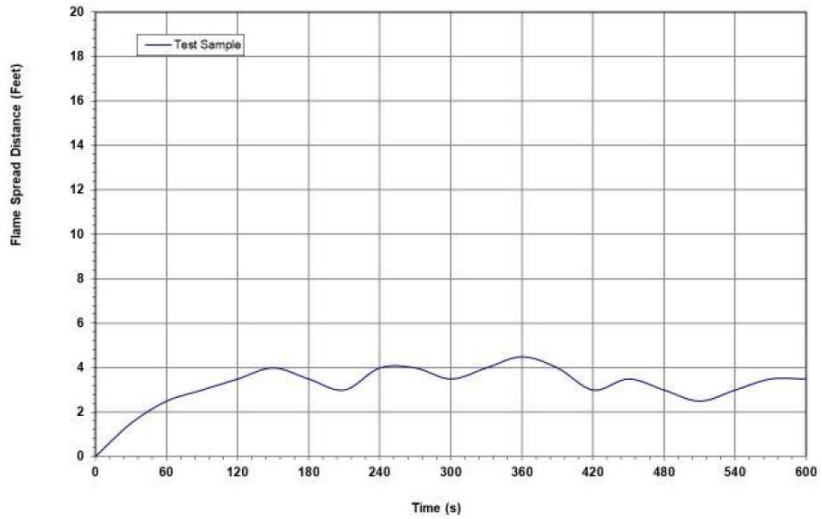
The classifications are as follows:

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

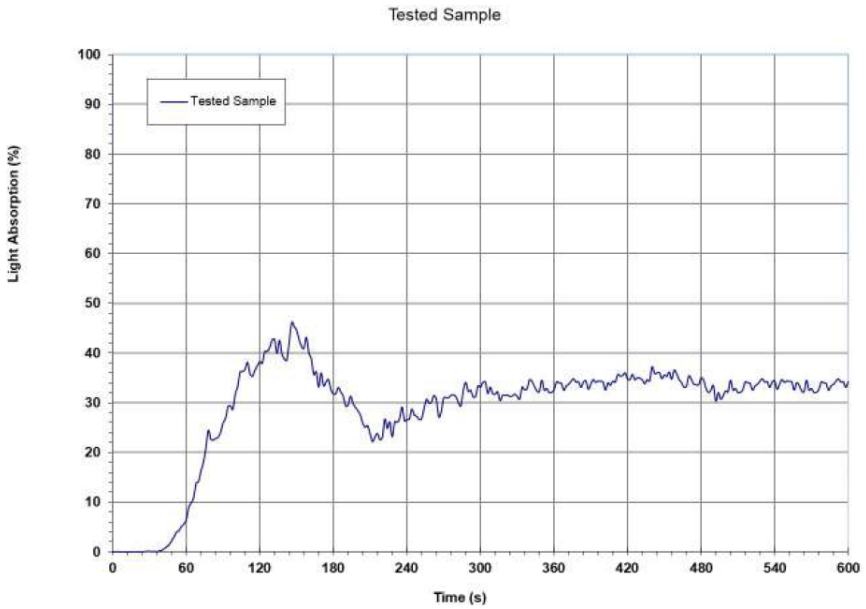
Since the tested sample received a Flame Spread Index 20 and a Smoke-developed Index 400, it would **meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.

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Graphical results:



Graph1. Flame Spread



Graph2. Smoke Developed

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Observations:

Time to ignition (sec)	15
Time to Max. FS (sec)	351
Maximum FS (feet)	4.5
Observations	None

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.

Photo Appendix:



SGS authenticate the photo on original report only

End of Report

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