HPVA LABORATORIES

42777 Trade West Drive, Sterling, VA 20166

Report On

Janka-ball Hardness

As Determined By

ASTM D1037, Section 17

Prepared For:

Aged Wide Floors, LLC

78 Clements St, Russel Lea NSW 2046 Australia

Product Description:

15mm Euro Oak EWF – 3mm Wear Layer – UV Cure Urethane Finish

Test Number: I-20-001

Date of Issue:

01/16/2020

Test Method

The test was conducted in accordance with Section 17 of ASTM D1037, *Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.* Section 17 contains a test method for determining the hardness of a panel via a modified Janka-ball test.

Procedure

A load is applied to a ball bearing with a diameter of 0.444 inches until the ball is imbedded one-half of its diameter into the test specimen. Two penetrations are made on the face of each test specimen. The locations of the points of penetration are at least 1 inch from the edges and ends of the specimen and far enough from each other so that one penetration does not affect the other. The load is applied at a uniform rate of 0.25 in./min ± 50%. Ten specimens were tested.

Test Specimens

Specimens have minimum dimensions of 6” long by 3” wide by at least 1” thick. If a panel is less than 1” thick, multiple thicknesses of the panel are glued together with rubber cement to achieve the required thickness.

Conditioning

The specimens were tested as received. They were not placed into a controlled conditioning environment, water soaked or exposed to an accelerated aging environment.

HPVA LABORATORIES
TESTING AND CERTIFICATION SERVICES
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Test Number: I-20-001 Test Date: 1/6/2020

Test Operator: PD

Product Description: 15mm Euro Oak EWF – 3mm Wear Layer – UV Cure Urethane Finish

Manufacturer: Aged Wide Floors, LLC

Test Results

Specimen Number	Measured Thickness (in.)	Maximum Load (lbf at 0.222" penetration)	
		No. 1	No. 2
1	1.179	781.17	862.00
2	1.178	770.98	872.01
3	1.182	913.71	832.73
4	1.184	758.23	926.37
5	1.183	1174.96	1040.42
6	1.183	1055.77	1096.32
7	1.184	1115.79	1101.66
8	1.186	1135.35	1349.38
9	1.186	1040.51	1081.56
10	1.178	1183.39	1090.76

Average	1009.15
Standard Deviation	160.97
COV (%)	15.95

Observations: None.

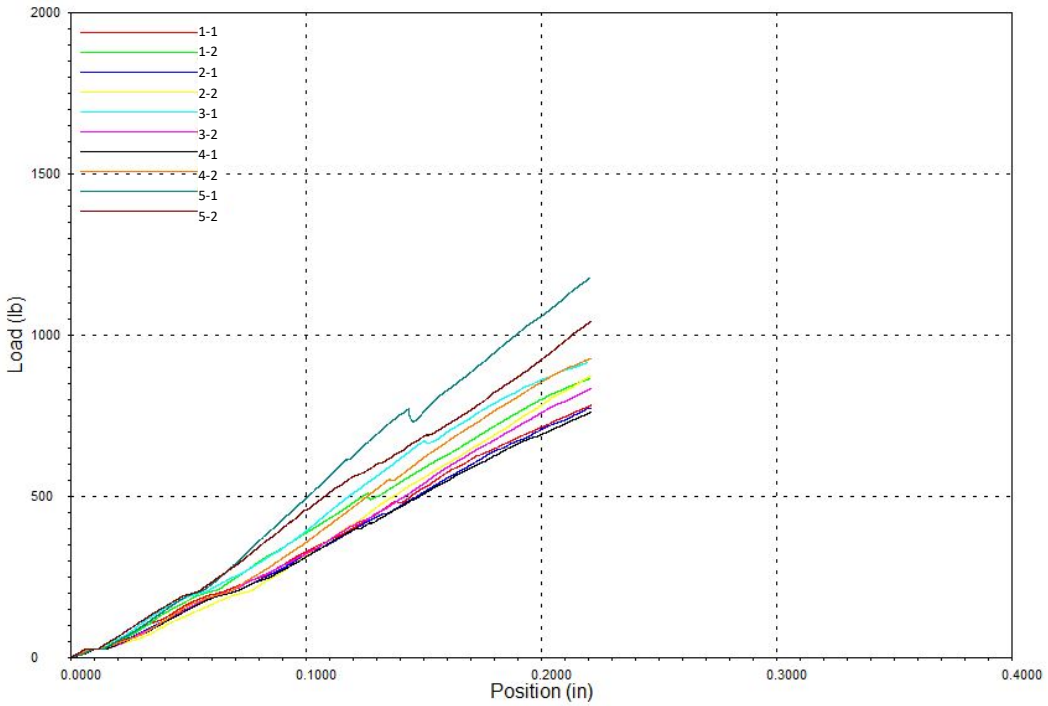
Remarks: The specimens that were submitted by the client had three straight edges and one edge containing a groove. The grooved edge did not appear to have any effect of the test results.

Chris Palumbo
Sr. Manager of Product Testing

Josh Hosen
Director of Certification Programs

Appendix – Graphs

Load vs Position (Specimen 1, No.1 – Specimen 5, No. 2)



Load vs Position (Specimen 6, No. 1 – Specimen 10, No. 2)