

terra legno

ENGINEERED WOOD FLOORING

ASTM TESTING DATA

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ENGINEERED WOOD FLOORING

ASTM TESTING DATA SUMMARY

WATER ABSORPTION AND SWELLING

SPECIES	TEST NUMBER	TEST NAME		
White Oak	ASTM D1037	Water Absorption And Swelling		
	Original	Final	Difference	
Thickness Swell	0.565 Inch	0.598 Inch	0.033 Inch/ 5.8%	
Water Absorption	265.19 Grams	324.53 Grams	59.34 Grams/ 22.4%	

SPECIES	TEST NUMBER	TEST NAME		
Brazilian Cherry	ASTM D1037	Water Absorption and Swelling		
	Original	Final	Difference	
Thickness Swell	0.565 Inch	0.599 Inch	0.034 Inch/ 6.0%	
Water Absorption	301.50 Grams	366.99 Grams	65.49 Grams/ 21.7%	

FALLING BALL INDENTATION TEST

SPECIES	TEST NUMBER	TEST NAME
White Oak	ASTM D2394	Falling Ball Indentation Test
DROP (inches)		DEPTH (inches)
12 inches		0.003 Inch
24 inches		0.005 Inch
36 inches		0.006 Inch
48 inches		0.008 Inch
60 inches		0.009 Inch
72 inches		0.010 Inch

SPECIES	TEST NUMBER	TEST NAME
Brazilian Cherry	ASTM D2394	Falling Ball Indentation Test
DROP (inches)		DEPTH (inches)
12 inches		0.006 Inch
24 inches		0.012 Inch
36 inches		0.013 Inch
48 inches		0.016 Inch
60 inches		0.019 Inch
72 inches		0.020 Inch

WATER ABSORPTION AND SWELLING TEST

SPECIES	TEST NUMBER	TEST NAME					
White Oak	ASTM D3459	Cycled Environments on Wood					
	Original	1 Cycle Humid	1 Cycle Dry	2 Cycles Humid	2 Cycles Dry	3 Cycles Humid	3 Cycles Dry
Length (inches)	11.968	11.986	11.958	11.989	11.962	11.994	11.958
Width (inches)	3.531	3.575	3.524	3.577	3.528	3.579	3.524
Thickness (inches)	0.570	0.590	0.561	0.594	0.563	0.592	0.564
Weight (grams)	273.79	292.17	258.86	292.19	261.54	292.24	261.52

SPECIES	TEST NUMBER	TEST NAME					
Brazilian Cherry	ASTM D3459	Cycled Environments on Wood					
	Original	1 Cycle Humid	1 Cycle Dry	2 Cycles Humid	2 Cycles Dry	3 Cycles Humid	3 Cycles Dry
Length (inches)	11.986	12.007	11.980	12.008	11.978	12.010	11.976
Width (inches)	3.556	3.582	3.549	3.583	3.547	3.583	3.544
Thickness (inches)	0.567	0.620	0.559	0.618	0.561	0.619	0.560
Weight (grams)	308.40	334.95	296.54	334.98	299.50	335.01	299.52



TEST REPORT

Date: 6/10/2008

TEST NUMBER: 114602

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	ASTM D1037 Water Absorption and Swelling
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	PEWONT White Oak
COLOR	-----
ROLL	-----
CONSTRUCTION	Engineered Wood
FIBER	-----
BACKING	-----
REFERENCE	

GENERAL PRINCIPLE

A test specimen was acclimated to laboratory conditions for 48 hours and then regauged for thickness and weighed. The sample was then exposed to high humidity in a chamber, removed, gauged and weighed again. The difference is reported as thickness swell and moisture absorption.

TEST RESULTS

	Original	Final	Difference
Thickness Swell	0.565 Inch	0.598 Inch	0.033 Inch/ 5.8%
Water Absorption	265.19 Grams	324.53 Grams	59.34 Grams/ 22.4%

APPROVED BY:

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TEST REPORT

Date: 6/10/2008

TEST NUMBER: 114603

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	ASTM D1037 Water Absorption and Swelling
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	PEBCNT Brazilian Cherry
COLOR	-----
ROLL	-----
CONSTRUCTION	Engineered Wood
FIBER	-----
BACKING	-----
REFERENCE	

GENERAL PRINCIPLE

A test specimen was acclimated to laboratory conditions for 48 hours and then regauged for thickness and weighed. The sample was then exposed to high humidity in a chamber, removed, gauged and weighed again. The difference is reported as thickness swell and moisture absorption.

TEST RESULTS

	Original	Final	Difference
Thickness Swell	0.565 Inch	0.599 Inch	0.034 Inch/ 6.0%
Water Absorption	301.50 Grams	366.99 Grams	65.49 Grams/ 21.7%

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TEST REPORT

Date: 6/10/2008

TEST NUMBER: 114602

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	ASTM D2394 Falling Ball Indentation Test
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	PEWONT White Oak
COLOR	-----
ROLL	-----
CONSTRUCTION	Engineered Wood
FIBER	-----
BACKING	-----
REFERENCE	

PURPOSE

Measure the resistance of a finish flooring to impacts from dropped objects.

PROCEDURE

A ball 2 inch (51 mm) in diameter weighing 1.18 lbs (535 grams) is dropped in a vertical line from a height of 6 inches (152 mm) and progress in 6 inch (152 mm) increments to 6 ft (1.8 m).

The depth of each indentation is measured after each drop by placing the center of the indentation measuring device over the center of the impact area.

TEST RESULTS

Indentation resistance index at a height of drop of 72 inches (1.8 m) = 0.10 inches.

DROP (inches)	DEPTH (inches)
12 inches	0.003 Inch
24 inches	0.005 Inch
36 inches	0.006 Inch
48 inches	0.008 Inch
60 inches	0.009 Inch
72 inches	0.010 Inch

NOTE: No fracture of surface or interior material observed.

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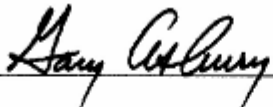
The depth of each indentation is measured after each drop by placing the center of the indentation measuring device over the center of the impact area.

TEST RESULTS

Indentation resistance index at a height of drop of 72 inches (1.8 m) = 0.020 inches.

DROP (inches)	DEPTH (inches)
12 inches	0.006 Inch
24 inches	0.012 Inch
36 inches	0.013 Inch
48 inches	0.016 Inch
60 inches	0.019 Inch
72 inches	0.020 Inch

NOTE: No fracture of surface or interior material observed.

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TEST REPORT

Date: 6/10/2008

TEST NUMBER: 114602

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	ASTM D3459 Cycled Environments on Wood
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	PEWONT White Oak
COLOR	-----
ROLL	-----
CONSTRUCTION	Engineered Wood
FIBER	-----
BACKING	-----
REFERENCE	

GENERAL PRINCIPLE

The submitted sample was examined stereoscopically with the appearance digitally recorded. The specimen was then allowed to acclimate in laboratory conditions of 70° F and 50% relative humidity for 48 hours and subsequently measured. The original length and width measurements were recorded. The specimen was placed in 95% humidity at 100° F for 48 hours, the sample was removed and immediately re-gauged. The specimen was then exposed to 0% humidity and 120° F for 48 hours, the sample was removed and immediately re-gauged. This cycle was conducted on one sample with measurements made at each condition. The appearance of the wood layer and wear layer was examined and compared against the original condition. All stages are reported.

TEST RESULTS

	Original	1 Cycle Humid	1 Cycle Dry	2 Cycles Humid	2 Cycles Dry	3 Cycles Humid	3 Cycles Dry
Length (inches)	11.968	11.986	11.958	11.989	11.962	11.994	11.958
Width (inches)	3.531	3.575	3.524	3.577	3.528	3.579	3.524
Thickness (inches)	0.570	0.590	0.561	0.594	0.563	0.592	0.564
Weight (grams)	273.79	292.17	258.86	292.19	261.54	292.24	261.52

NOTES:

No face or finish cracking. No ply separation or planar change.

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TEST RESULTS

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Length (inches)	11.986	12.007	11.980	12.008	11.978	12.010	11.976
Width (inches)	3.556	3.582	3.549	3.583	3.547	3.583	3.544
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