



TEST REPORT

DATE: 09/17/2008

TEST NUMBER: 116207

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	Formaldehyde Content:HPVA EF 2002 3.10/ASTM E 1333
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Natural White Oak
COLOR	-----
ROLL	-----
CONSTRUCTION	Engineered Wood
FIBER	-----
BACKING	-----
REFERENCE	

GENERAL PRINCIPLE

The flooring material was placed as installed into the clean chamber. The air change rate was 0.5 per hour. At the end of the exposure period, the air in the test chamber was quantified for formaldehyde using a Thermo Scientific Genesys 10 UV instrument with a chromotropic acid colorimetric procedure.

TEST RESULTS

Target Compound	Emission (mg/m ³)	PPM	Requirement
Formaldehyde	<0.020	<0.016 ppm	<0.25 mg/m ³ / <0.20 ppm

COMMENTS

This material meets or exceeds the requirements as set forth under HPVA EF 2002 3.10.

APPROVED BY: *Gary Anthony*

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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 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%

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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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TEST REPORT

DATE: 07-16-2015

TEST NUMBER: 0220752

CLIENT	Dyerich Flooring Designs, Ltd./Terra Legno
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TEST METHOD CONDUCTED	ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Terra Legno Engineered Wood Flooring

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

FLOORING SYSTEM ASSEMBLY			
SUBSTRATE	Mineral-Fiber/Cement Board	UNDERLAYMENT	Loose Laid
ADHESIVE	N/A	CONDITIONING	Minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity

	Distance Burned	0.55	Critical Radiant Flux
Specimen 1	39 cm	23 minutes	0.51 watts/square cm
Specimen 2	36 cm	20 minutes	0.55 watts/square cm
Specimen 3	41 cm	24 minutes	0.45 watts/square cm

Average Critical Radiant Flux	0.50 Watts/Square Cm
Standard Deviation	0.04 Watts/Square Cm
Coefficient of Variation	8.16 %

*** NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101 and IBC 804.2 Classification.**

APPROVED BY:



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