

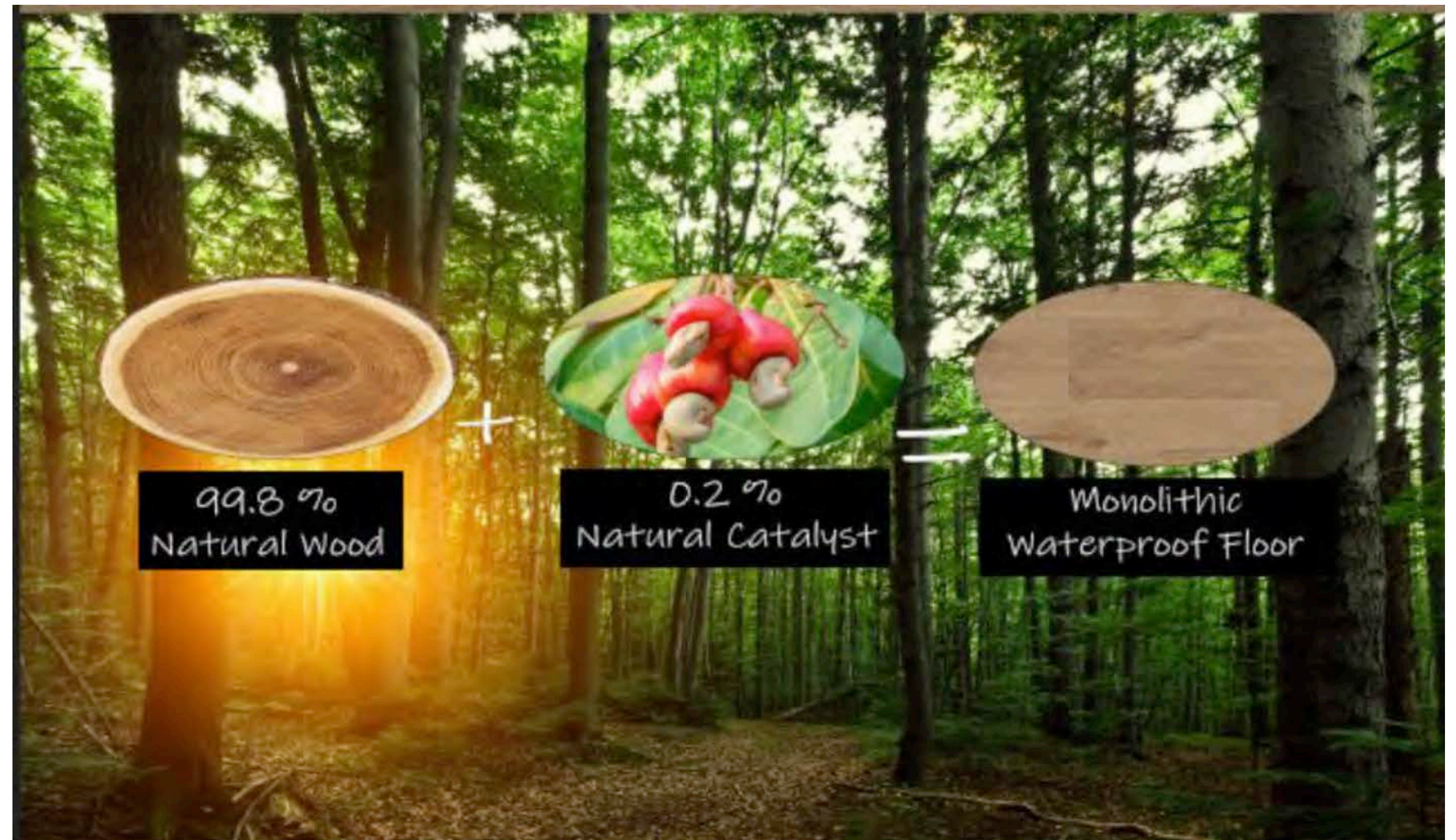
Monolithic Waterproof Real Wood Flooring

Our Waterproof Wood...

- Unlike every other product available today.
- Monolithic (all one substance) and the entire product/core is WATERPROOF
 - Core can be cut at any length/angle and installed anywhere in your home with no caulk required. It will remain 100% waterproof!
- 99.8% natural wood and 0.2% natural catalyst
- Proprietary process combines natural wood and a natural catalyst (cashew oil) under heat and pressure, which then explodes to create a monolithic core
- Similar monolithic process to HardiePlank, but our ONLY ingredient is natural wood
 - No adhesives, plastics or PVC!

MonoTech

- 100% organic
- 100% allergy-free
- No adhesives, plastics or PVC
- Lifetime waterproof warranty
- Lifetime pet-proof warranty
- Scratch-proof warranty
- CARB2 compliant
- FloorScore certified



A Waterproof Product, Not A Waterproof System

- Other products are only topically waterproof and must always be sealed from moisture with either a locking system/caulk/visqueen, but our waterproof wood collections are 100% waterproof throughout. Cut our product in half, and cut any competitor's product in half, and set them both in a bucket of water for days/weeks/months. Our product will not be affected.
- According to ASTM testing by Professional Testing Labs in Dalton, GA, our products are Heavy Duty Commercial Waterproof, better than tile (except porcelain).
- Read our competitors' warranty. Most do not cover water damage/moisture in their warranty. Our warranty is lifetime waterproof and pet proof guaranteed.

More Benefits...

- Minimal floor prep required vs SPC
- Best fire safety rating available: more than double the class 1 rating required as per NFPA Life SafetyCode 101
- Exceeds (by over 90%) the strictest air quality standards in the US: exceeds CARB2 requirement and all OSHA requirements
- Easy 1 page installation instructions

Waterproof Comparisons

- “HDF board” / “Edge coating for moisture resistance” / “Typically waterproof” / “Good water resistance” are phrases used to hid the fact that the product is water resistant, not waterproof
- The standard for waterproof testing is the NAFLA 3.2 Thickness Swell test, which shows our product is between 1.2%-1.6%. Anything under 12% is rated heavy duty commercial waterproof. **Our product is 90% better than the heavy duty waterproof standard.**
- It’s vital to see competitors’ actual test using actual ASTM guidelines

TEST REPORT

DATE: 09-28-2022

TEST NUMBER: 0290421

CLIENT	
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TEST METHOD CONDUCTED	NALFA 3.2 Thickness Swell
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Ivan/BF553VN (SW74)
CONSTRUCTION	Wood Plank
REFERENCE	Waterproof Wood Sample

GENERAL PRINCIPLE

This test measures the ability of laminate flooring to resist edge thickness increases after being exposed to distilled water. Two 6" x 6" specimens are cut and the thickness is calculated using a compressometer. The two samples are submerged one inch below the water line in 70° F distilled water for 24 hours and then removed and re-measured. The thickness swell is calculated as a percentage of the original thickness.

TEST RESULTS

	THICKNESS SWELL	PERCENTAGE SWELL
SPECIMEN 1	+0.008 Inch	+1.6%
SPECIMEN 2	+0.006 Inch	+1.2%

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
≤ 18%	≤ 16%	≤ 16%	≤ 12%

APPROVED BY:

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714 Glenwood Place Dalton, GA 30721 Phone: 706-226-3283 Fax: 706-226-6787 email: protest@optilink.us

Monolithic Waterproof Testing: Heavy Commercial

Air Quality Comparisons

- CARB2 is the recognized standard in the USA and is the strictest guideline in the world
- Testing data for air quality/formaldehyde emissions (CARB2):
 - CARB2 standard is < 0.11 ppm
 - Our monolithic waterproof wood is 0.01 ppm
 - 91% below the strictest air quality standard in the world
 - Lowest of any product on the market



Test Report

No. CANMLC2215444801

Date: 03 Aug 2022

Page 2 of 4

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-154448.001	Beown board with wood grain surface & beige backing

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Formaldehyde Emission

Test Method : With reference to ASTM D6007-14, analysis was performed by UV-Vis. Conditioning for 7 days at 24°C and 50% relative humidity.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Background	ppm	0.01	ND
Formaldehyde Emission	ppm	0.01	0.01
Formaldehyde Emission (Corrected)	ppm	0.01	0.01

Notes :

- 1. ppm = parts of formaldehyde per million parts air
- 2. ND = Not Detected
- 3. MDL = Method Detection Limit
- 4. Formaldehyde Emission (Corrected) is Formaldehyde concentration corrected to 25°C and 50% Relative Humidity.

**Air Quality Testing:
0.01 ppm
(91% below the
CARB2 standard
of 0.11 ppm)**

FloorScore Certification



INDOOR AIR QUALITY CERTIFICATION SUMMARY

The following table details the conformance for products that have met FloorScore® product certification requirements. Products that have met FloorScore® certification also comply with the following criteria: USGBC LEED 2008, 2009 and v4 for Low-Emitting Materials (Flooring); Collaborative for High Performance Schools (CHPS) 2009 Criteria, EQ2.2.3; ANSI/ASHRAE/USGBC/IES Standard 189.1-2014, Section 8.4.2.3: Floor Covering Materials; BREEAM International and BREEAM UK; Green Guide for Health Care 2.2 EP 3.3 and EQ 4.3; and WELL Building Standard 4.3.a: Air.

PRODUCT CATEGORY	PRODUCT LINE(S)	QUALIFICATIONS	CERTIFICATE NUMBER	CERTIFICATION PERIOD
Vinyl Tile Flooring	Stone Plastic Composite (SPC) Flooring (Maximum thickness: 5mm)	TVOC Range: 0.5 mg/m ³ or less	SCS-FS-03921	Apr 1, 2024 to Mar 31, 2025
	Wood Plastic Composite (WPC) Flooring (Maximum thickness: 7.5mm)			
Laminate Flooring	Laminate Flooring (Maximum thickness: 12mm)	TVOC Range: 0.5 mg/m ³ or less	SCS-FS-07848	Apr 1, 2024 to Mar 31, 2025

TEST REPORT

DATE: 04-21-2021

TEST NUMBER: 0275635

CLIENT	
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TEST METHOD CONDUCTED	NALFA 3.6 Small Ball (Dart) Impact Resistance
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Waterproof Laminate Flooring Sample
CONSTRUCTION	Laminate Flooring

GENERAL PRINCIPLE

This test measures the ability of a laminate flooring to resist fracture due to impact by a small diameter ball/dart (25 grams) falling onto the surface of the unrestricted laminate floor sample. Drops are conducted in incremental heights until the surface of the material is fractured. The submitted material was tested according to the NALFA requirements using the proper underlayment.

TEST RESULTS

MAXIMUM HEIGHT TO ACHIEVE FRACTURE OF SURFACE LAYER	RESULT
WITH UNDERLAYMENT	500 mm (19.7 inch)

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
> 200 mm (7.9 inch)	> 200 mm (7.9 inch)	> 350 mm (13.8 inch)	> 500 mm (19.7 inch)

APPROVED BY:

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Small Ball Impact Resistance Testing: Heavy Duty Commercial

TEST REPORT

DATE: 04-21-2021 TEST NUMBER: 0275635

CLIENT

TEST METHOD CONDUCTED NALFA 3.5 Large Ball Impact Resistance



DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Waterproof Laminate Flooring Sample
CONSTRUCTION	Laminate Flooring

GENERAL PRINCIPLE

This test measures the ability of a laminate flooring to resist fracture due to impact by a large diameter ball (224 grams) falling onto the surface of the unrestricted laminate floor sample. Drops are conducted in incremental heights until the surface of the material is fractured. The submitted material was tested according to the NALFA requirements using the proper underlayment.

TEST RESULTS

MAXIMUM HEIGHT TO ACHIEVE FRACTURE OF SURFACE LAYER	RESULT
WITH UNDERLAYMENT	1400 mm (55.1 inch)

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
> 800 mm (31.5 inch)	> 1000 mm (39.4 inch)	> 1200 mm (47.3 inch)	> 1400 mm (55.1 inch)

APPROVED BY: *Larry Colburn*

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Large Ball Impact Resistance Testing: Heavy Duty Commercial

TEST REPORT

DATE:04-21-2021

Page 1 of 1

TEST NUMBER:0275635

CLIENT	
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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	Waterproof Laminate Flooring Sample
CONSTRUCTION	Laminate 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	Time To Flame Out	Critical Radiant Flux
Specimen 1	12 cm	8 minutes	1.07 watts/square cm
Specimen 2	16 cm	6 minutes	1.00 watts/square cm
Specimen 3	15 cm	9 minutes	1.02 watts/square cm

Average Critical Radiant Flux	1.03 Watts/Square Cm
Standard Deviation	0.03 Watts/Square Cm
Coefficient of Variation	2.86 %

NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.

Fire Safety Testing: Exceeds Class 1 rating as specified in NFPA Life Safety Code 101 (Best fire safety rating)

APPROVED BY: *Amy Asberry*



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TEST REPORT

DATE: 03-04-2024

TEST NUMBER: 0305441

CLIENT	
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TEST METHOD CONDUCTED	NALFA 3.1 Static Load
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Mauimtn

GENERAL PRINCIPLE

This test determines the recovery properties of laminate floor covering after long term indentation (24 hours) under a specified load.

The test sample is conditioned to equilibrium at 73° F and 50% relative humidity. The initial thickness of the sample is determined using a dial micrometer with a flat presser foot .250 inches in diameter. A specified load is applied to the sample for 24 hours. After removal of the load, the sample is allowed to recover for 24 hours. The sample is regauged using the .250 inch diameter presser foot. The difference between the two measurements is reported as the residual compression. Different loads are used in 250 lb. increments starting at 1,400 lbs. and working backwards until the residual compression is .001 inches or less.

TEST RESULTS

SPECIFIED LOAD	RESIDUAL COMPRESSION
1,400 Lbs.	0.001 Inch

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
≥ 870 psi	≥ 870 psi	≥ 1160 psi	≥ 1160 psi

NAFLA 3.1 Static Load: Best in Industry Class 4 Heavy Duty Commercial

APPROVED BY:

Lee Phillips

TEST REPORT

DATE: 03-04-2024

TEST NUMBER: 0305441

CLIENT	
TEST METHOD CONDUCTED	NALFA 3.4 Cleanability-Stain Resistance
DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	MauiMtr

GENERAL PRINCIPLE

This test measures both the ease of cleanability and stain resistance of high pressure decorative laminate by common household stains. The staining agents are removed and graded by the ease of removal procedure. If the agent cannot be removed and is left as a stain, the stain is rated and reported as such.

TEST RESULTS


STAINING AGENT	REMOVAL SCORE	STAIN RESISTANCE
Distilled Water	0	No Effect
50:50 Ethyl Alcohol	0	No Effect
Acetone	0	No Effect
Household Ammonia	0	No Effect
10% Citric Acid	0	No Effect
Vegetable Oil	0	No Effect
Fresh Coffee	0	No Effect
Fresh Tea	0	No Effect
Catsup	0	No Effect
Yellow Mustard	0	No Effect
10% Providone Iodine	0	No Effect
Black Marker Ink	2	No Effect
#2 Pencil	0	No Effect
Wax Crayon	0	No Effect
Black Shoe Polish	2	No Effect
TOTAL REMOVAL SCORE	4	

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
< 20 - No More than Slight Effect	< 20 - No More than Slight Effect	< 20 No More than Slight Effect	< 20 No More than Slight Effect

Cleaning Agents	
0	Water
1	Mild Detergent
2	Baking Soda w/Brush
3	Acetone
4	Bleach
5	Stain Remains

NAFLA 3.4 Cleanability - Stain Resistance: Best in Industry Class 4 Heavy Duty Commercial

APPROVED BY: 

TEST REPORT

DATE: 03-04-2024

TEST NUMBER: 0305441

CLIENT	
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TEST METHOD CONDUCTED	NALFA 3.9 Chair Resistance
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	MauiMtn

GENERAL PRINCIPLE

This test is designed to determine what effect the action of rolling traffic has on a particular flooring surface. The sample is subjected to the reciprocating action of a chair base which is loaded to 198 pounds total weight. The chair castors are set to cause a random cycling motion resulting in an oval shaped wear pattern. After a predetermined number of cycles, the test sample is given a numerical rating based on the general appearance.

TEST RESULTS

NUMBER OF CYCLES	APPEARANCE RATING
35,000	No damage

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
25,000 cycles No Effect	25,000 cycles No Effect	25,000 cycles No Effect	35,000 cycles No Effect

NAFLA 3. Chair Resistance: Best in Industry Class 4 Heavy Duty Commercial

APPROVED BY:

Lee Phillips

TEST REPORT

DATE: 03-04-2024 TEST NUMBER: 0305441

CLIENT

TEST METHOD CONDUCTED NALFA 3.10 Surface Bond of Laminate Flooring per NALFA Standards Publication LF 01

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION MauiMtn

SCOPE
This test measures the force required to delaminate or split away the surface of laminate flooring plank or tile.

PROCEDURE
Four test specimens selected from different planks are cut 50 mm x 50 mm (2 inch x 2 inch) nominal size. A circular groove is cut into the specimens decorative face 0.0 mm – 0.3 mm (0.12 inch) resulting in a raised circular test area having a 35.7 mm ± 2 mm (1.4 inch ± 0.1 inch) diameter. A heated steel pad is glued to the center of the test specimen with hot melt adhesive and when cool is ready for testing.

The pad with adhered specimen is placed in a tensile tester fixture. Using the tensile tester, a constant speed to achieve a separation between 30 and 90 seconds. The force to separate is divided by the area to determine the surface bond.

TEST RESULTS

AVERAGE SURFACE BOND	1.72 N/mm ²
FAILURE LOCATION	Core

* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
1 N/mm ²	1.25 N/mm ²	1.25 N/mm ²	1.5 N/mm ²

APPROVED BY: 

NAFLA 3.10 Surface Bond (delamination): Best in Industry Class 4 Heavy Duty Commercial

TEST REPORT

DATE: 03-04-2024 Page 1 of 1 TEST NUMBER: 0305441

CLIENT	
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TEST METHOD CONDUCTED	ASTM E662 Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	MauiMtn

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

CONDITIONS			
PREDRYING OF TEST SAMPLE	24 Hours at 140° F		
CONDITIONING OF TEST SAMPLE	24 Hours at 70° F and 50% Relative Humidity		
TESTING CONDITION	As Received		
FURNACE VOLTAGE	118 V	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H ₂ O
CHAMBER TEMPERATURE	95° F		
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)	FLAMING	229
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES		83

	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	257.0	228.0	273.0
Time to Dm (minutes)	17.0	20.0	19.0
Clear Beam (Dc)	22.0	23.0	26.0
Corr. Max Density (Dmc)	235.0	205.0	247.0
Density at 1.5 minutes	5.0	8.0	15.0
Density at 4.0 minutes	60.0	91.0	97.0
Time to 90% Dm (minutes)	13.5	12.5	14.0
Specimen Weight (grams)	39.6	38.5	39.5

*NOTE: This material meets the requirements of NFPA Life Safety code for ASTM E662 of not to exceed 450 DMC.

Smoke Density (Flaming): Best in Industry Meets NFPA Life Safety Code for ASTM E662 Requirements by Better Than 50%

APPROVED BY: *Lee Phillips*



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PJLA Testing Accreditation #93341

TEST REPORT

DATE: 03-04-2024 Page 1 of 1 TEST NUMBER: 0305441

CLIENT	
TEST METHOD CONDUCTED	ASTM E662 Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	MauMtn

GENERAL PRINCIPLE
 This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

CONDITIONS			
PREDRYING OF TEST SAMPLE	24 Hours at 140° F		
CONDITIONING OF TEST SAMPLE	24 Hours at 70° F and 50% Relative Humidity		
TESTING CONDITION	As Received		
FURNACE VOLTAGE	118 V	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H ₂ O
CHAMBER TEMPERATURE	95° F		
TEST MODE	Non-Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)	NON-FLAMING		
	247		
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES	37		
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	262.0	261.0	254.0
Time to Dm (minutes)	20.0	20.0	20.0
Clear Beam (Dc)	19.0	9.0	7.0
Corr. Max Density (Dmc)	243.0	252.0	247.0
Density at 1.5 minutes	3.0	0.0	0.0
Density at 4.0 minutes	71.0	24.0	16.0
Time to 90% Dm (minutes)	17.0	17.0	17.5
Specimen Weight (grams)	39.7	38.8	39.1

**NOTE: This material meets the requirements of NFPA Life Safety code for ASTM E662 of not to exceed 450 DMC.*

Smoke Density (Non-Flaming): Best in Industry Meets NFPA Life Safety Code for ASTM E662 Requirements

APPROVED BY: 



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TEST REPORT

DATE: 03-06-2024

Page 1 of 1

TEST NUMBER: 0305441

CLIENT	
TEST METHOD CONDUCTED	ASTM F1514 Measuring Heat Stability of Resilient Flooring by Color Change
IDENTIFICATION	DESCRIPTION OF TEST SAMPLE MauiMtn

GENERAL PRINCIPLE

The test specimens are exposed to heat for 7 continuous days in an air circulating chamber. The materials are read using a spectrophotometer for the baseline color value and then read after the exposure. The Delta E is listed to show the color value change resulting from each exposure.

TEST RESULTS

	DELTA E (ΔE) Rating	Gray Scale Rating
Heat Aged Sample 1	0.29	5.0
Heat Aged Sample 2	0.22	5.0
Heat Aged Sample 3	0.20	5.0

Test requirements of < 8.0 Delta E were met by the tested samples.

AATCC RATING KEY	
5	No change
4	Slight change
3	Noticeable change
2	Considerable change
1	Severe change

Heat Stability of Flooring by Color Change: Best in Industry 5.0 ASTM F1514 Rating

APPROVED BY:

