

# HEMPWOOD<sup>®</sup>

2024 PRODUCT CATALOG

SINCE 2018



HEMPWOOD ORGANIC FLOORING

Premium Select | Taupe

WHERE SUSTAINABILITY MEETS HEALTHY BUILDING MATERIALS



**“Here at HempWood, we strive every day to deliver on a promise to the environment and ourselves. HempWood is more than just a hardwood. It's a lifestyle choice.”**

## ABOUT US

It all started with a love for nature and a knack for numbers. HempWood® Founder Greg Wilson says that his passion for nature stems from his upbringing. “I have been blessed to be born into a lineage of outdoorsman. My father and grandfather have taught me to live off the land and the importance of putting mother nature first.”

Greg went on to get a degree in civil engineering and left the United States to work in the bamboo flooring mills of Anji, China. During his fourteen-year career, Greg was tasked with researching biomaterials to make hardwood. He tested over 200 plant species using an algorithm he developed in college and discovered HempWood.

To date, the HempWood Headquarters resides in Murray, Kentucky where operations are focused on carbon negativity, sustainability, healthy materials. As the first USDA Certified BioPreferred Hardwood Flooring made in America, Fibonacci, LLC continues to pioneer the way for healthy, sustainable building materials.



Greg Wilson, Founder & CEO

## HISTORY

2010  
HempWood discovered

2014  
U.S. Farm Bill passed

2016  
HempWood Patent Filed

2018  
HempWood founded  
on Pi Day

# OUR PROCESS

## FARMING & GLUING

All of our hemp is sourced from within 100 miles of the HempWood® Headquarters in Murray, Kentucky. Local farmers grow this carbon-sequestering crop until maturity and then it is delivered to the facility. Upon arrival, the hemp is put through a roller to open the cell structure, which allows for the proteins of the plant-based adhesive to penetrate the material. After submerging the material in no VOC, plant-based adhesive, the material is spread out on racks for the drying process, which takes place in custom-made drying containers.



## PRESSING & BAKING

After drying and achieving a tacky-like texture, the dried material is portioned for pressing. The material is first placed into the pre-press, which allows for equal density and distribution in the HempWood® Blocks. After pre-pressing, the material is pushed through to the main press that utilizes 3,000 tons of pressure. The material is pressed into 5.5" x 5.5" x 6' steel mold and baked. After baking, the HempWood is extruded from the steel molds and cut.

## PRODUCTS & DISTRIBUTION

HempWood® Natural Flooring, Lumber, Paneling, Woodturning Blanks, Cabinet Kits, and Picture Frames are all made from HempWood® Blocks. HempWood® Lumber is a non-structural hardwood intended for cabinetry, furniture, and other hobby wood applications. HempWood® Natural Flooring is an engineered flooring product that is comparable to American white oak. HempWood® products can be purchased factory direct or from a dealer in your area.





# OUR PARTNERS

## BONA® SEALERS AND FINISHES

The world's leading waterborne finish, providing unsurpassed scuff, scratch and chemical resistance. Bona Traffic HD® is for hardwood floor owners with an uncompromising attitude towards durability, lasting beauty and sustainable solutions. Significantly outperforms all urethane finishes, including Bona Traffic, in durability at 24 hours. Very low VOC – less than 150 g/L, nonflammable and non-offending odor.



## PUREBOND® HARDWOOD PLYWOOD

PureBond® is Columbia Forest Products' exclusive formaldehyde-free innovation for hardwood plywood assembly. Columbia's formaldehyde-free decorative panels are also conform to U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) standards by meeting exempt emissions classification within the California Air Resources Board (CARB) Air Toxic Control Measure (ATCM) referenced by LEED V4.

## CARGILL® PROLIA SOY FLOUR

Emission of volatile organic compounds and hazardous air pollutants can contribute to a variety of unhealthy conditions. Soy flour adhesives, like Cargill's Prolia™ soy flour – a co-product that remains after oil is extracted from soybeans – are a natural replacement for formaldehyde and phenol-based resins that have been targeted for removal from wood materials.







NATURAL

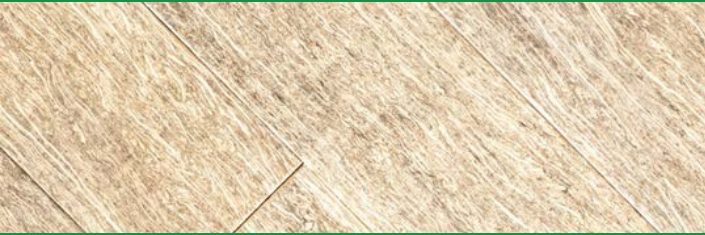




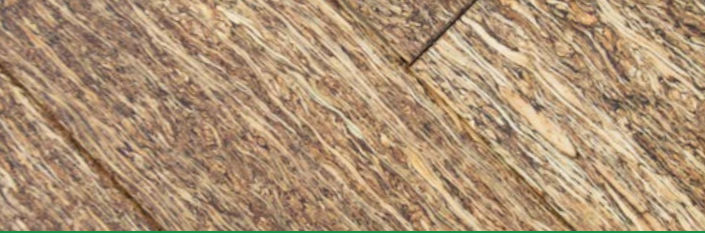
BMW MATERIA



SITE-FINISHED



NATURAL



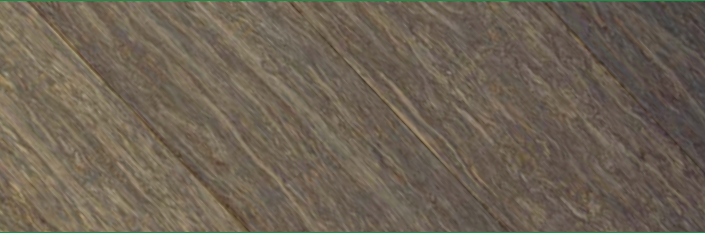
BOURBON



ICE



TAUPE



GRANITE



# USDA CERTIFIED BIOBASED PRODUCT

The USDA Certified Biobased Product label displays a product's biobased content, which is the portion of a product that comes from a renewable source, such as plant, animal, marine, or forestry feedstocks. Utilizing renewable, biobased materials displaces the need for non-renewable petroleum-based chemicals. Biobased products, through petroleum displacement, have played an increasingly important role in reducing greenhouse gas (GHG) emissions that exacerbate global climate change.





# BEST SELLERS

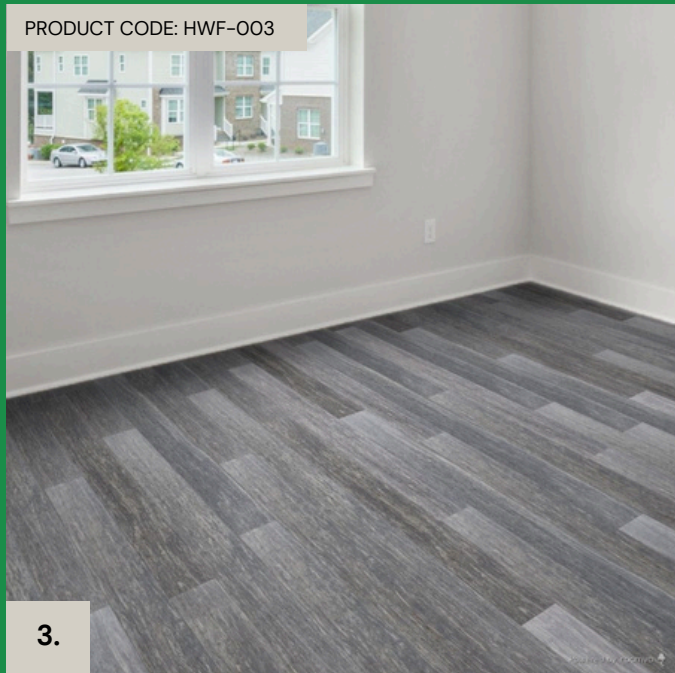
PRODUCT CODE: HWF-001



PRODUCT CODE: HWF-002



PRODUCT CODE: HWF-003



1. PRODUCT CODE: HWF-001

## NATURAL

Premium Select  
Specification: 5/8"x5"x48-72"  
Construction: Engineered  
Lock: Tongue and groove  
Plank Edge: Bevel  
Plank Finish: Flat

2. PRODUCT CODE: HWF-002

## ICE

Premium Select  
Specification: 5/8"x5"x48-72"  
Construction: Engineered  
Lock: Tongue and groove  
Plank Edge: Bevel  
Plank Finish: Flat

3. PRODUCT CODE: HWF-003

## GRANITE

Premium Select  
Specification: 5/8"x5"x48-72"  
Construction: Engineered  
Lock: Tongue and groove  
Plank Edge: Bevel  
Plank Finish: Flat





# HEMPWOOD® FLOORING



Sustainable



Nontoxic



Made in USA



Durable



Pet Friendly

## ABOUT THE PRODUCT

HempWood® Natural Flooring is safe for our consumers with no VOCs due to our no-added formaldehyde soy-based adhesive. The engineered format offers ease of installation, multiple subfloor applications, and the ability to be refinished up to four times. HempWood® Natural Flooring has a Janka Hardness Rating of 2,200 lbf, which is 20% harder than American white oak. The flooring is also CARB 2 and TSCA VI Compliant. In addition to no VOCs, the ASTM E648 Fire Rating is a Class 1, which is well above the commercial standard.

## PRODUCT VARIATIONS

Our HempWood® Natural Flooring is offered in two options: Site-finished and our Custom Color Collection. Site-finished HempWood® Flooring allows for customization of any color. Site-finished is the perfect option for cutting costs and for personalizing your HempWood® flooring to your style. Our Custom Color Collection option uses Bona® coatings and is ready for installation. The Custom Color Collection offers 5 color options, including Ice, Natural, Bourbon, Taupe, and Granite.

## BENEFITS & FEATURES

By utilizing fast-growing hemp (grown <100 miles from the factory), bonded with a soy-based adhesive (grown <500 miles from the factory), and a carbon-negative manufacturing process, HempWood® Organic Flooring is the most sustainable flooring product on the market. Through our patented process and adhesives, we are able to offer a flooring product strong enough to handle daily foot traffic without emitting VOCs into the atmosphere. Lastly, being made in America, it not only supports the local economy but allows for shortened lead times.



# TECHNICAL DATA

## PRODUCT SPECIFICATIONS

### HempWood® Natural Flooring

Dimension	5/8" x 5" x up to 72"
Construction	Engineered
Grade	Sanded
Coating	Unfinished & Prefinished
Moisture	9% +/- 2%
Lock	Tongue & Groove
Plank Edge	Standard
Plank Finish	Flat

## WARRANTY

**Premium Select**  
**LIFETIME Limited Residential**  
**5-YR Limited Commercial**

## INSTALLATION METHODS

- Nail down
- Glue down
- Float (glue assist)

## PATTERNS



Herringbone



Random



**Environmental  
Product  
Declaration**

Verified by ASTM

TAUPE





GRANITE



# STATEMENT WALLS



RECLAIMED



HERRINGBONE



VERTICAL STRAIGHT LAY

## CREATE A UNIQUE STATEMENT IN YOUR HOME

Another creative application of HempWood® Natural Flooring are statement walls, which are able to be applied in a variety of patterns and finishes. Statement walls can be applied in a reclaimed pattern with multiple color finishes, a classic and stylish herringbone pattern, or a straight-lay pattern.



ABOUT

There are two categories of HempWood Organic Flooring – Premium Select and Character. Premium Select is intended for residential and commercial-grade applications. Character is intended for solely for residential applications.

FORMAT

Both Premium Select and Character Grade are constructed on an engineered format, meaning that plywood is used for the substrate and a HempWood is the top layer. Both categories, use the same materials, including adhesives, sealers, and finishes.

INSTALLATION

HempWood Organic Flooring can be installed like other engineered hardwoods. Nailing, gluing, and floating (with a glue assist) are all options for installation.

SPECIFCATIONS

Grade: Premium Select

Grain: Rift  
Color: Natural, Ice, Granite, Taupe, or Bourbon  
Visual: Limited color variation and character  
Specification: 5/8"x5"x up to 72"  
Construction: Engineered  
Grade: Sanded  
Coating: Bona Traffic HD  
Moisture: 9% +/- 2%  
Lock: Tongue and groove  
Plank Edge: Bevel  
Plank Finish: Flat

WARRANTY

Premium Select

- LIFETIME limited residential
- 5 year limited commercial

Grade: Character

Grain: Rift  
Color: Natural, Ice, Granite, Taupe, or Bourbon  
Visual: Some color variation and character  
Specification: 5/8"x4.5"x up to 72" or 5/8"x4"x up to 72"  
Construction: Engineered  
Grade: Sanded  
Coating: Bona Traffic HD  
Moisture: 9% +/- 2%  
Lock: Tongue and groove  
Plank Edge: Bevel  
Plank Finish: Flat

Character

- 10 year limited residential



Made in  
USA



Commerical  
Grade



ASTM E648  
Class 1 Fire  
Rating



Carbon  
Negative



No VOCs



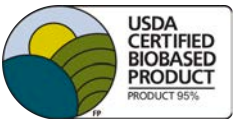
No added  
Formaldehyde

PREMIUM SELECT

- More water resistant than Character
- More scratch resistant than Character
- Neater, tighter grain pattern
- Uniform color
- Free of knots & blemishes

CHARACTER

- Water resistant up to 2 hours
- Scratch resistant
- Narrower plank
- Color variation (L/M/D)
- Knots & blemishes visible



**HEMPWOOD FLOORING IS  
95% BIOBASED**



LEED POINTS

- 601.5 Prefabricated components
- 604.1 Recycled content
- 606.1 Biobased products
- 608.1 Resource-efficient material
- 611.2 Sustainable products

HEALTHY MATERIALS

A plant-based adhesive makes for no VOC flooring. Resulting in cleaner indoor air quality and higher cognitive ability. "On average, cognitive scores were 61% higher" (Environmental Health Perspectives).

CARBON NEGATIVITY

Hemp is a powerful plant. Estimates show that for every ton of hemp grown, 1.62 tons of carbon dioxide is removed. Additionally, our manufacturing process utilizes bio and hydro energy to make a carbon-negative building material.

USDA CERTIFIED BIOBASED PRODUCT

In addition to strengthening the economy and supporting rural America, biobased products help address climate change by offering renewable alternatives to petroleum-based products. They also sequester carbon dioxide, lowering the concentration of greenhouse gases in the atmosphere that contribute to climate change.



HEMPWOOD FLOORING IS  
95% BIOBASED

INSTALLATION RECOMMENDATIONS

- Approved asbestos encapsulation method
- Warranted install over VCT Tile.
- Ensure VCT is secured subfloor.
- Ensure that the moisture levels are in accordance with HempWood Installation Instructions.
- For preparation, abrade the surfaces and clean up any debris.
- For installation, adhere the flooring to the subfloor as normal. Reference the HempWood Installation Instructions for adhesive recommendations. For commercial applications, square-edge, site-finished flooring is recommended.

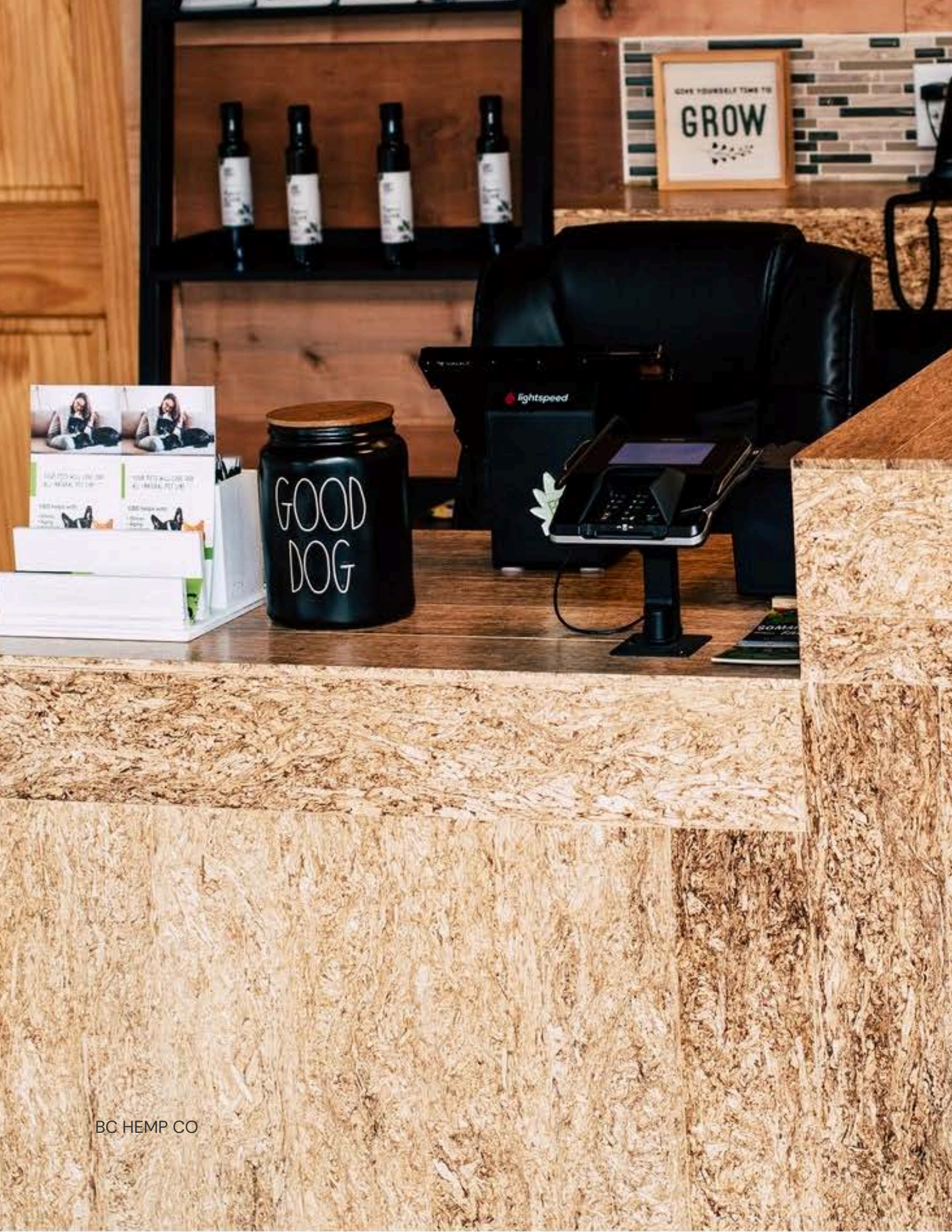
Test Results		
Item	Standard	Result
Density	ASTM D2395	60 lbs/ft3 or 960 kg/m3
Hardness	ASTM D1037 -6a (Janka Ball)	2,200 lbf
Dimensional Stability	ASTM D1037 (20-90% RH)	Swell 0.02/0.06/ 0.77%
Fire Rating	ASTM E 648	Class 1
Fire Rating	ASTM E84-23	Class B
Abrasion Resistance*	ASTM 1037	1600-1800 revs (WRO)
Scratch Resistance*	ASTM 1037	21N
Slip Resistance*	BGR 151/DIN 51 130	R10
Formaldehyde Emissions*	CARB 2 & TSCA VI	Compliant
VOCs Emissions*	ASTM D6007-14	BLQ = <0.008ppm

- Made in USA
- Commercial Grade
- ASTM E648 Class 1 Fire Rating
- Carbon Negative
- No VOCs



\*Bona Coating







# TECHNICAL DATA

## PRODUCT SPECIFICATIONS

### HempWood® Hardwood Lumber

Construction	Solid
Grit Level	120
Moisture	9% +/- 2%
Sawn	Rift or Live
Dimension	5.5" x 5.5" x up to 72" 4/4" x 5.5" x up to 72" 3/4" x 5.5" x up to 72" 1/4" x 5.5" x up to 72"

## WORKABILITY



Mill



Turn



Saw



Drill



Engrave



Sand





## ABOUT THE PRODUCT

HempWood® is an engineered hardwood made from fiber hemp stalks and a soy-based adhesive. HempWood® Lumber is intended for interior applications, such as furniture and cabinetry. Our lumber outperforms other hardwoods and is also priced competitively with the hardwood market.

## KEY FEATURES

- Made in USA
- Commercial Grade
- ASTM E648 Class 1 Fire Rating
- Carbon Negative
- No VOCs

## AVAILABLE SIZES

### 72" Boards

8/4" x 5.25" x up to 72"  
4/4" x 5.25" x up to 72"  
3/4" x 5.25" x up to 72"  
1/2" x 5.25" x up to 72"  
1/4" x 5.25" x up to 72"  
3/16" x 5.25" x up to 72"

### 48" Boards

8/4" x 5.25" x up to 48"  
4/4" x 5.25" x up to 48"  
3/4" x 5.25" x up to 48"  
1/2" x 5.25" x up to 48"  
1/4" x 5.25" x up to 48"  
3/16" x 5.25" x up to 48"

### Blocks

5.5" x 5.5" x 72"  
5.5" x 5.5" x 48"

## BOARDS



HEMPWOOD LUMBER IS  
96% BIOBASED



Made in  
USA



Commercial  
Grade



ASTM 648  
Class 1 Fire  
Rating



Carbon  
Negative



No VOCs

## GRAIN PATTERN







ICE



# PANELS & FURNITURE



3 LAYER PANEL



## HEMPWOOD® CABINETS

Get your very own HempWood® Cabinet to put in your home or office. Our HempWood® Cabinets are constructed from our HempWood® Panels with a solid or acrylic HempWood® Door. This piece of furniture comes ready for assembly including instructions and a follow-along tutorial video on YouTube.

**AVAILABLE SIZES: 10 5/8 x 22 x 25" (Outside)**



## HEMPWOOD® TABLE TOP

Get the chance to work hands-on with this innovative and stunning material. The product of your work; is an artful functional piece of furniture. It is as easy as you buy the table top, we ship the supplies, and you follow along with our easy instructions and tutorial videos.

**AVAILABLE SIZES: 6 Top (42 x 72") | 4 Top (42 x 42") | Desk (24 x 48")**





ABOUT THE PRODUCT

Our engineered panels are HempWood® top layers laminated onto PureBond Plywood. The 3-layer panels are constructed from cross-laminated solid HempWood. These panels are perfect for cabinetry, shelving, and furniture.

KEY FEATURES

- Made in USA
- Commercial Grade
- ASTM E648 Class 1 Fire Rating
- Carbon Negative
- No VOCs

INSTALLATION METHODS

- Glue
- Nail
- Z-Clip

AVAILABLE SIZES

Single sided	lb/ft²	Double sided	lb/ft²	NEW 3 Layer	lb/ft²
5/8" x 48" x 96"	2	3/4" x 48" x 96"	3	3/4" x 48" x 96"	4.8
4/4" x 48" x 96"	2.2	4/4" x 48" x 96"	3.2	5/4" x 48" x 96"	8
5/8" x 48" x 48"	2	3/4" x 48" x 48"	3	3/4" x 48" x 72"	4.8
4/4" x 48" x 48"	2.2	4/4" x 48" x 48"	3.2	5/4" x 48" x 72"	8

Thinner/lighter option: 3/8" panel, Luan backer **1.3lb/ft²** (Custom sizes available)

Made in USA

Commerical Grade

ASTM E648 Class 1 Fire Rating

Carbon Negative

No VOCs

CONSTRUCTION

**SINGLE SIDED**

- ← HempWood®
- ← FSC-Certified PureBond Plywood

**DOUBLE SIDED**

- ← HempWood®
- ← FSC-Certified PureBond Plywood
- ← HempWood®

**3-LAYER**

- ← HempWood®
- ← HempWood®
- ← HempWood®

GRAIN PATTERN





# COMMERICAL USE

## EDUCATION AND INSTITUTION

Due to its no VOC formula, ASTM E648 class 1 fire rating, and carbon negative footprint, HempWood® Organic Flooring is the perfect building material for schools, universities, healthcare facilities, and government buildings that have sustainable building requirements.



Greenwood High School, Bowling Green, KY



Kansas City



University of Kentucky, Lexington, KY



Chipotle, California



Murray State University, Murray, KY





# FRAMES

HempWood Picture Frames are the perfect option for displaying works of art and even diplomas. Our frames are available in two standard sizes with two finish options.

**AVAILABLE SIZES:**  
**15 x 17" | 22 x 19" | CUSTOM SIZING**



Unfinished



Natural

## GET CREATIVE!

HempWood® Frames aren't just for pictures. You can also create a mirror with our frames!





# WOODTURNING BLANKS

1.



2.



## 1. BOTTLE STOPPER

2" x 2" x 2 1/2" (HxWxL)

## 2. BOWL

3" x 5.25" x 5.25" (HxWxL)

3.



4.



## 3. COASTER (PACK OF 4)

4" x 4" x 1/2" (HxWxL)

per piece

## 4. GAME CALL (2 PACK)

2" x 2" x 3" (HxWxL)

per piece

5.



6.



## 5. PEPPERMILL

3" x 3" x 12" (HxWxL)

## 6. BEAD (3 PACK)

1" x 1" x 10" (HxWxL)

per piece

7.



8.



## 7. PEN (4 PACK)

3/4" x 3/4" x 5 1/2"

(HxWxL) per piece

## 8. KNIFE HANDLE

3/4" x 1 7/8" x 5" (HxWxL)



# SAMPLE PACKS

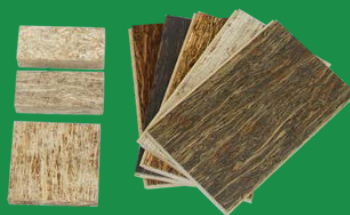
Christina's Choice

SAMPLE PACKS ARE CREDITED TOWARDS YOUR FIRST ORDER GREATER THAN \$500.

A.



B.



C.



## A. FLOORING

The Flooring Sample Pack comes equipped with three prefinished flooring options. The customer is able to choose three colors from our custom color collection.

Custom Color Collection: Ice, Granite, and Natural.

## B. ARCHITECTURE & DESIGN

The Architect & Design pack includes flooring, lumber, and panel samples. Perfect for showcasing what HempWood has to offer to the architecture and design community!

## C. CARPENTER

The Carpenter's Kit was made for those who make and create. Want to test new material for your upcoming project? The Carpenter's Kit comes equipped with sizeable panel and lumber samples that are perfect for testing the possibilities of HempWood!







# CONTACT US

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