

HEMPWOOD[®]

2025 PRODUCT CATALOG





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.

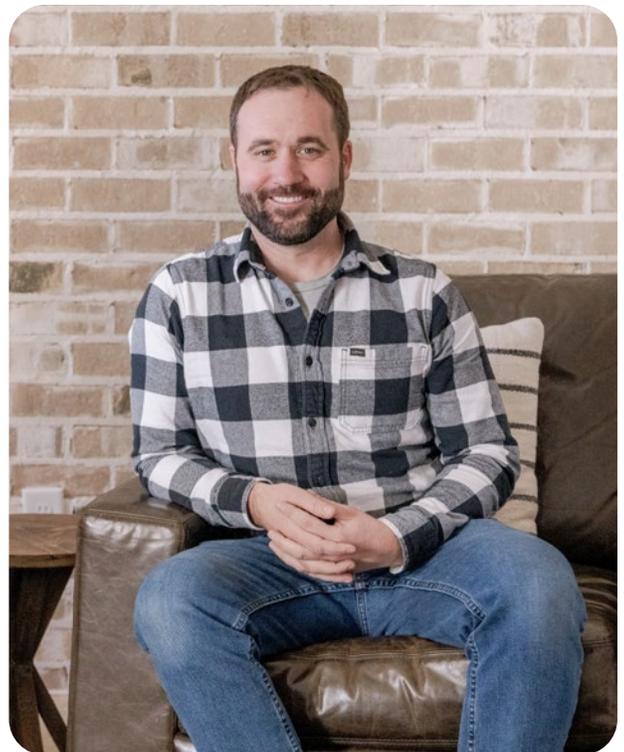
ABOUT US

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 outdoorsmen. 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 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 manufacturing is based in Murray, Kentucky, using a carbon negative process and locally-grown hemp. 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

OUR TEAM



Working hard to create an excellent product and to provide great service.

We pride ourselves on our commitment to putting our all into what we do, which lets us bring you the best product possible. Our leadership team are owners of the business and are dedicated to bringing you high-quality customer service — When you call us, you are talking to our hardworking team in western Kentucky, not a call center.



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Contact Us

HempWood's in-house team is ready to answer your questions about our products, process an order, or direct you to the right person to fulfill your needs.

Phone

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7 AM — 7 PM CST

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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.

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 140x140x1850mm 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.



CARGILL® PROLIA SOY FLOUR

Emission of volatile organic compounds and hazardous air pollutants can contribute to a variety of unhealthful 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.



PUREBOND® HARDWOOD PLYWOOD

PureBond® is Columbia Forest Products' exclusive formaldehyde-free innovation for hardwood plywood assembly. Columbia's 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.

INSTITUTIONAL PARTNERS



Cornell University



MURRAY STATE
UNIVERSITY



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.



WHY HEMPWOOD?

HempWood is a uniquely beneficial material for projects with high sustainability, health, and durability standards. For commercial projects, HempWood can help architects and designers achieve LEED® and other environmental certifications. For residential builds, HempWood can help create healthier spaces that benefit families by contributing to improved indoor air quality with its formaldehyde-free, zero-VOC formula.



ZERO-VOC



MADE IN USA



DURABLE



CARBON NEGATIVE



WATER RESISTANT

TAUPE
PREMIUM SELECT

OUR PRODUCTS

HEMPWOOD® ORGANIC FLOORING

PRODUCT SPECIFICATIONS

HempWood® Organic Flooring

Dimension 15.6 x 127 x up to 1830mm
Construction Engineered
Grade Sanded
Coating Unfinished or Prefinished

Moisture 8% +/- 2%
Lock Tongue & Groove
Plank Edge Standard
Plank Finish Flat

WARRANTY

Premium Select

Commercial 5 Years
Residential Lifetime

Character Grade

Residential 25 Years

INSTALLATION

- **Nail Down**
- **Glue Down**
- **Floating (Glue Assist)** RESIDENTIAL ONLY.

For more information about installation, please visit our [Installation Instructions](#).

COLOR SELECTION

SITE-FINISHED



NATURAL



OAK



BOURBON



ICE



TAUPE





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.

SPECIFICATIONS

Grade: Premium Select

Grain: Rift
Color: Natural, Ice, Granite, Taupe, or Bourbon
Visual: Limited color variation and character
Specification: 15.6 x 127 x up to 1830mm
Construction: Engineered
Grade: Sanded
Coating: Bona Traffic HD
Moisture: 8% +/- 2%
Lock: Tongue and groove
Plank Edge: Bevel
Plank Finish: Flat

Grade: Character

Grain: Rift
Color: Natural, Ice, Granite, Taupe, or Bourbon
Visual: Some color variation and character
Specification: 15.6 x 114 x up to 1830mm
Construction: Engineered
Grade: Sanded
Coating: Bona Traffic HD
Moisture: 8% +/- 2%
Lock: Tongue and groove
Plank Edge: Bevel
Plank Finish: Flat

- Made in USA
- Commercial Grade
- Class Cfl S1 Fire Rating EN ISO 9239-1-2010
- Carbon Negative
- No VOCs
- No added Formaldehyde

WARRANTY

Premium Select

- LIFETIME limited residential
- 5 year limited commercial

Character

- 10 year limited residential

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 30 minutes
- Scratch resistant
- Narrower plank
- Knots & blemishes visible



HEMPWOOD FLOORING IS 95% BIOBASED

HEMPWOOD® LUMBER

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.

PRODUCT SPECIFICATIONS

HempWood® Lumber

Construction	Solid
Grit Level	120
Moisture	9% +/- 2%
Sawn	Rift or Live

Workability	Mill, Turn, Saw, Drill, Engrave, or Sand
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AVAILABLE SIZES

183cm Boards

- 5 x 13.3 x up to 183cm
- 2.5 x 13.3 x up to 183cm
- 1.9 x 13.3 x up to 183cm
- 1.3 x 13.3 x up to 183cm
- .635 x 13.3 x up to 183cm
- .48 x 13.3 x up to 183cm

122cm Boards

- 5.1 x 13.3 x up to 122cm
- 2.5 x 13.3 x up to 122cm
- 1.9 x 13.3 x up to 122cm
- 1.3 x 13.3 x up to 122cm
- .635 x 13.3 x up to 122cm
- .48 x 13.3 x up to 122cm

Blocks

- 14 x 14 x 183cm
- 14 x 14 x 122cm



LIVE SAWN



RIFT SAWN



HEMPWOOD® PANELS

Our engineered panels are HempWood top layers laminated onto FSC Certified PureBond Plywood. Our 3-Layer Panels are constructed from cross-laminated solid HempWood. These panels are perfect for cabinetry, shelving, and furniture.

AVAILABLE SIZES

Single Sided	kg/m ²	Double Sided	kg/m ²	3-Layer	kg/m ²
1.6 x 122 x 244cm	10	1.9 x 122 x 244cm	14	1.9 x 122 x 244cm	18
2.5 x 122 x 244cm	13	2.5 x 122 x 244cm	17	3.2 x 122 x 244cm	31
1.6 x 122 x 122cm	10	1.9 x 122 x 122cm	14	1.9 x 122 x 183cm	18
2.5 x 122 x 122cm	13	2.5 x 122 x 122cm	17	3.2 x 122 x 183cm	31



**ZERO
VOC**



**MADE
IN USA**



**COMMERCIAL
GRADE**



**CARBON
NEGATIVE**



**WATER
RESISTANT**



SINGLE SIDED
HempWood
FSC-Certified PureBond Plywood



DOUBLE SIDED
HempWood
FSC-Certified PureBond Plywood



3-LAYER
HempWood



LIVE



RIFT



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.

- Made in USA
- Commercial Grade
- Class Cfl S1 Fire Rating
EN ISO 9239-1-2010
- Carbon Negative
- No VOCs

Test Results		
Item	Standard	Result
Density	ASTM D2395	60 lbs/ft ³ or 960 kg/m ³
Hardness	ASTM D1037 -6a (Janka Ball)	998kgf
	EN 1534:2020 (Brinell)	43.26N/mm ²
Dimensional Stability	ASTM D1037 (20-90% RH)	Swell 0.02/0.06/ 0.77%
ASTM E648 Fire Rating	ASTM E 648	Class 1
ASTM E84-23	ASTM E84-23	Class B
Fire Resistance	EN ISO 9239-1 (2010)	Cfl-S1
Abrasion Resistance*	ASTM 1037	1600-1800 revs (WRO)
Scratch Resistance*	ASTM 1037	21N
Slip Resistance*	BGR 151/DIN 51130	R10
Formaldehyde Emissions*	CARB 2 & TSCA VI	Compliant
VOCs Emissions*	ASTM D6007-14	BLQ = <0.008ppm



*Bona Coating



TAUPE
PREMIUM SELECT



STATEMENT WALLS

CREATE A UNIQUE STATEMENT IN YOUR SPACE

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



TAUPE & OAK
ACCENT WALL



HEMPWOOD CABINETS

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: 685 x 1420 x 1625mm (Outside)

ICE
PREMIUM SELECT



COMMERCIAL USE

HempWood® Organic Flooring and Panels are the perfect building materials for schools, universities, healthcare facilities, and government buildings that have sustainability and health requirements. HempWood's zero-VOC formula, EN ISO 9239-1-2010 Class Cfl-S1 fire rating, and carbon negative footprint make it an exceptional choice for institutional and commercial use.



Warren County Public Schools



Chipotle



Murray State



University of Kentucky



Floré



Gaston



GRANITE
PREMIUM SELECT

FRAMES

HempWood Frames are a great way to exhibit art or show off diplomas. We offer frames in two standard sizes and any of our original colors.

AVAILABLE SIZES:

38.1 x 43.2cm | 55.9 x 48.3cm | Custom Sizing

Get Creative: HempWood Frames aren't just for pictures — You can also create beautiful mirrors from our frames.



PANELS & FURNITURE

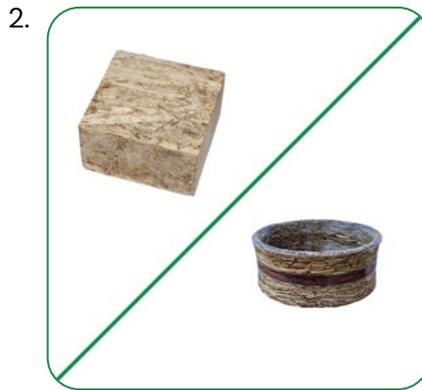
HEMPWOOD TABLETOPS

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. The process is easy: You purchase the tabletop, we ship the supplies, and you follow along with our easy instructions and tutorial videos.

AVAILABLE SIZES:

**Desk (61 x 122cm) | 4 Top (122 x 122cm) |
6 Top (107 x 183cm) | Boardroom (122 x 244cm) |
Custom Sizing**

WOODTURNING BLANKS



HempWood turning blanks let you create custom projects from solid HempWood. Choose from eight pre-sized blanks for your next project.

1. BOTTLE STOPPER
5.1 x 5.1 x 6.4cm

2. BOWL
7.6 x 13.3 x 13.3cm

3. COASTER (PACK OF 4)
10.2 x 10.2 x 1.3cm

4. GAME CALL (2 PACK)
5.1 x 5.1 x 7.6cm

5. PEPPERMILL
7.6 x 7.6 x 30.5cm

6. BEAD (3 PACK)
2.5 x 2.5 x 25.4cm

7. PEN (4 PACK)
1.9 x 1.9 x 14cm

8. KNIFE HANDLE
1.9 x 4.8 x 12.7cm

SAMPLE PACKS

HempWood Sample Packs are the best way to get familiar with this versatile, healthy material. Curious? Visit our website or call (888) 338-1235 to order.



A. ARCHITECTURE & DESIGN PACK

Our most popular pack includes flooring, lumber, and panel samples — Perfect for showcasing all of HempWood's design possibilities.

INCLUDES

- 1.6 x 12.7 x 20.3cm Premium Select Flooring Samples: Natural, Oak, Ice, Bourbon, Taupe
- 2.5 x 4.5 x 10.1cm Lumber Samples: Live and Rift Sawn
- 3.4 x 10.1 x 10.1cm 3-Layer Panel Sample: Rift Sawn

B. CRAFTSMAN SAMPLE PACK

This pack was made for those who make and create. Want to test new material for your upcoming project? The Craftsman Pack comes with sizeable lumber and panel samples.

INCLUDES

- 1.6 x 15.2 x 20.3cm Panel Samples: Live and Rift Sawn
- 2.5 x 5 x 20.3cm Lumber Samples: Live and Rift Sawn
- 3.175 x 10.1 x 10.1cm 3-Layer Panel Sample
- 3.4 x 10.1 x 10.1cm 3-Layer Panel Sample

C. FLOORING SAMPLE PACK

This collection comes with three prefinished flooring samples. You can choose three colors from our collection when you order.

INCLUDES

Your choice of three flooring samples.

Color options:

Site Finished, Natural, Oak, Ice, Taupe, Bourbon

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