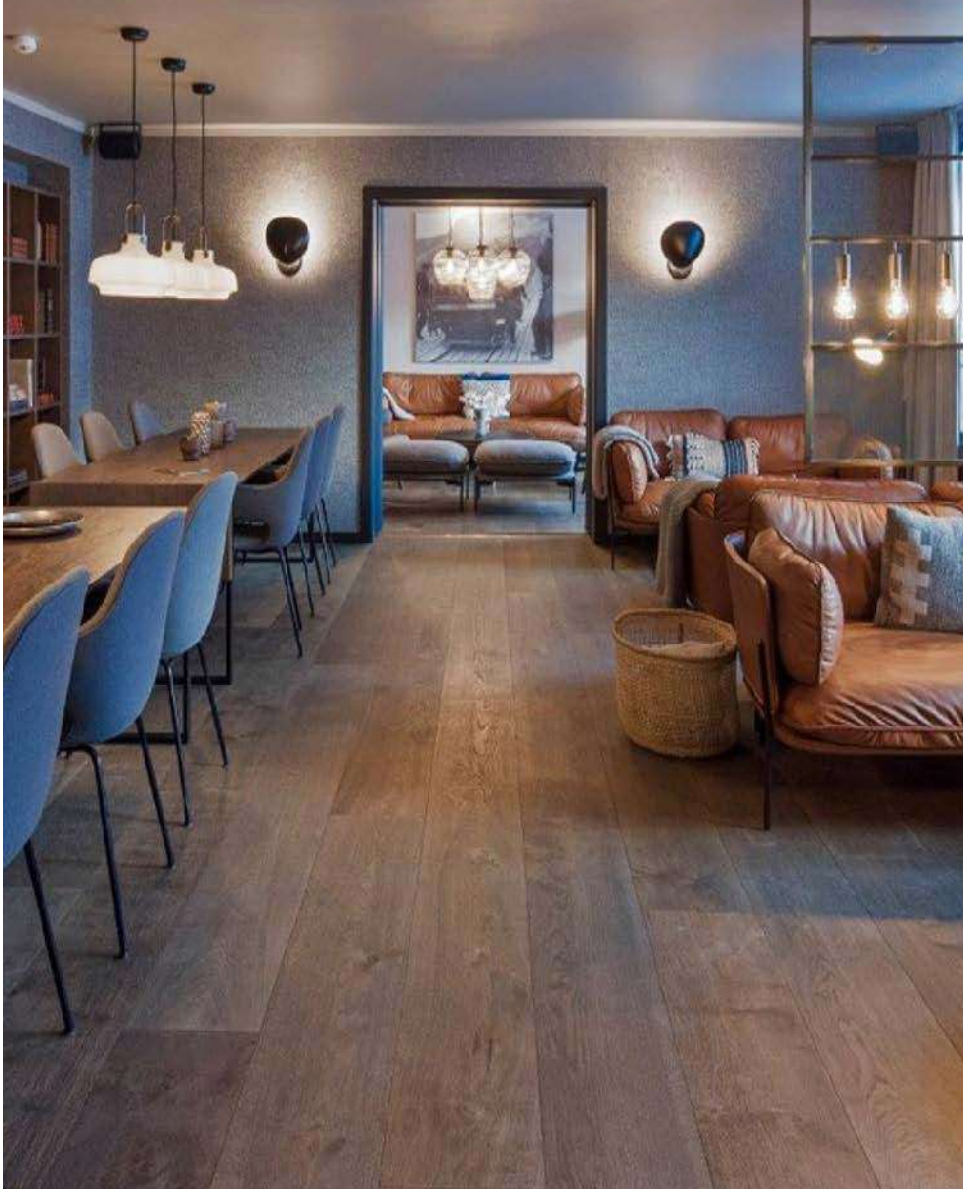


# Sustainable Flooring

Hightech Woods™ + Strandwoven® + ComCork™ + Versacork®



[www.SustainableFlooring.com](http://www.SustainableFlooring.com)

# Sustainable Flooring



**Sustainable Flooring** was established in 2002 to bring truly 'sustainable' flooring products to the architectural and design channels. With a mission of sustainability before it was even a thing, we have never strayed from the goal of offering differentiated products that are not only 'sustainable' (in what they are, or are not), but are designed to outperform traditional products.

By adopting this philosophy of product development and curation (better but sustainable), our products provide 'value' to any consumer or specifier, whether they are sustainably minded or disregard sustainability all together. Under our rationale... a better product, is just that, a better product. And, if it is also 'sustainable', then it is the BEST product.

Ultimately, we bring sustainable global flooring innovations to market, focusing on products offering 'best-in-class' durability, sustainable manufacturing and sourcing, and low toxicity and emissions. Our manufacturing partnerships run deep and are vetted based upon a holistic analysis taking into account environmental and quality considerations. Within our accessible and easy to manage portfolio of products, we believe in 'sustainability', but lead with quality, durability, and longevity! "Value" is really the name of the game!

**Décor Acoustics** ([www.DecorAcoustics.com](http://www.DecorAcoustics.com)) – specializing in 'acoustic' products

- CoreBOO™ - bamboo acoustic panels, planks, and slat walls
- WAVE™ Panels – moulded 'wave' panels from recycled PET felt
- Acoustifoam™ - closed-cell foam ceiling panels, baffles, and tiles

**Sustainable Materials** ([www.SustainableMaterials.com](http://www.SustainableMaterials.com)) – specializing in wall products

- Muratto®- manufacturing co-op focusing on 'cork' and other innovative materials
- Versacork®- mosaic tiles from post-industrial wine-stopper material
- Textura®- natural wood wall décor emphasizing texture

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 Pete Nichols, President

# Hightech™ Woods

## Fusion Plank Flooring

**Hightech Woods** is a line of plain-sawn, engineered wood flooring that uses a 'thermal fusion' process to bond a top wood layer to an extremely densified FSC-core.

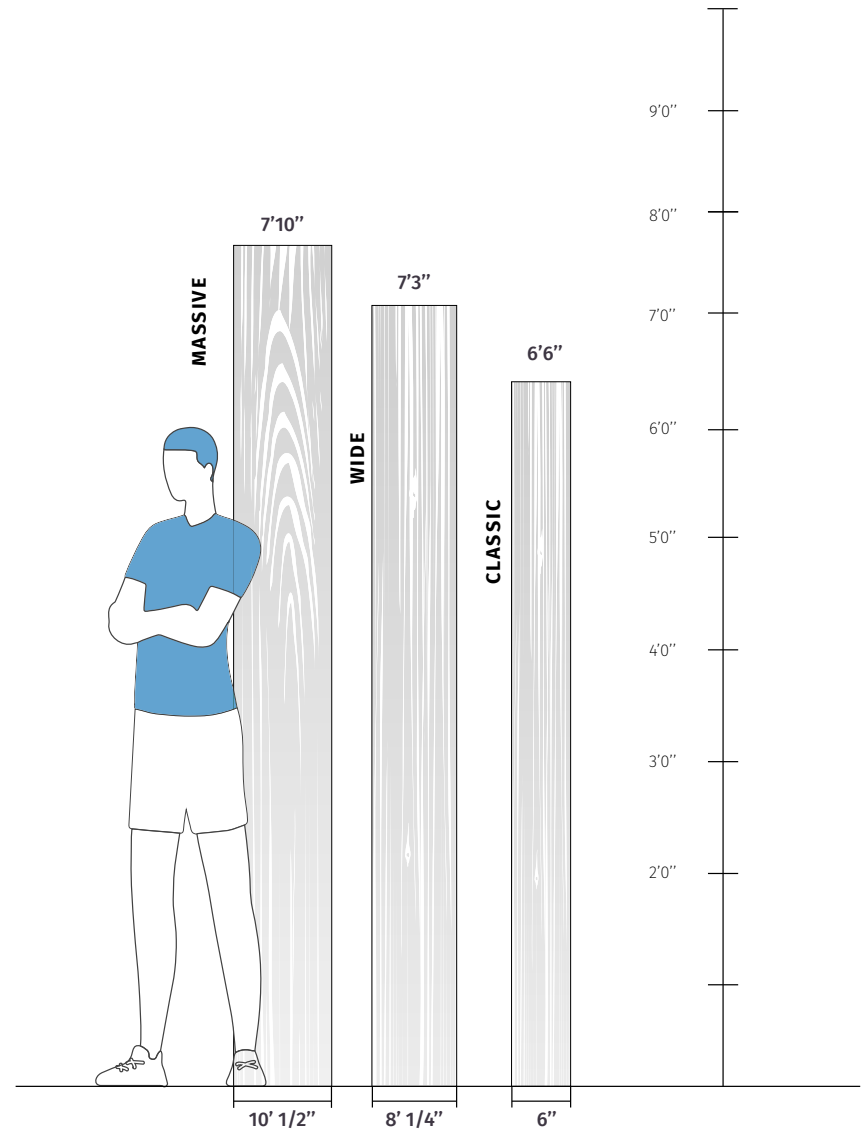
Available in Walnut, Oak, and Ash species, the fusion manufacturing methodology provides an extremely stable flooring product, that enables the fabrication of very long length planks without the fear of expansion/contraction found in 'solid plank' flooring formats.

Hightech Woods are available in 3 widths: **Classic (6")**, **Wide (8-1/4")**, and **Massive (10-1/2")**, with some species and/or colors reserved for certain versions. Using the proprietary manufacturing system, Hightech Woods differentiates itself from traditional flooring in three critically important areas: dent resistance, stability, and installation (method and speed).

*Note: See more on this on pages 8 and 9.*



Oak Latte (Wide)



# Hightech Woods CLASSIC

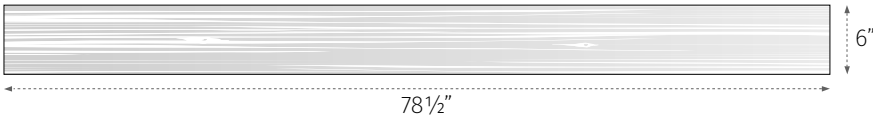
**Colors:**



Oak Natural    Chestnut Oak    Country Oak    Oak Latte    Light Weather

\* check website for full list of color options

**CLASSIC plank size:**  
6" X 78-1/2" x 3/8"



**Finish:** UV-cured acrylic commercial-grade urethane



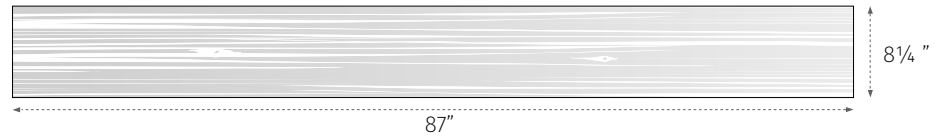
Smoked Walnut (Wide)

# Hightech Woods WIDE + MASSIVE

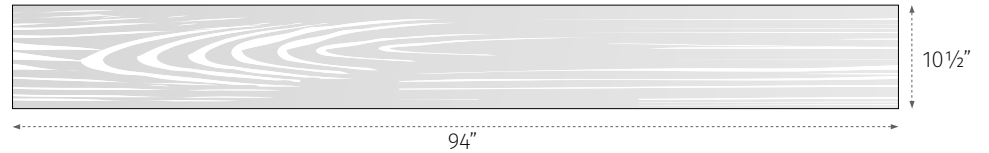


**WIDE plank size:**  
8-1/4" X 87" x 7/16"

Field Ash (Wide)



**MASSIVE plank size:**  
10-1/2" X 94" x 7/16"



**Finish:** UV-cured acrylic commercial-grade urethane

**Colors:**

\*Only available in the "WIDE" format



Chestnut Oak    Country Ash    Field Ash    Light Weather    Walnut Natural\*

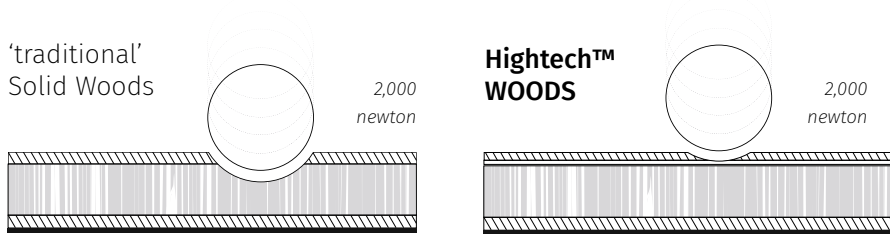


Medium Weather    Oak Latte    Oak Natural    Tobacco Oak    Smoked Walnut\*



# Dent Resistance and Hardness

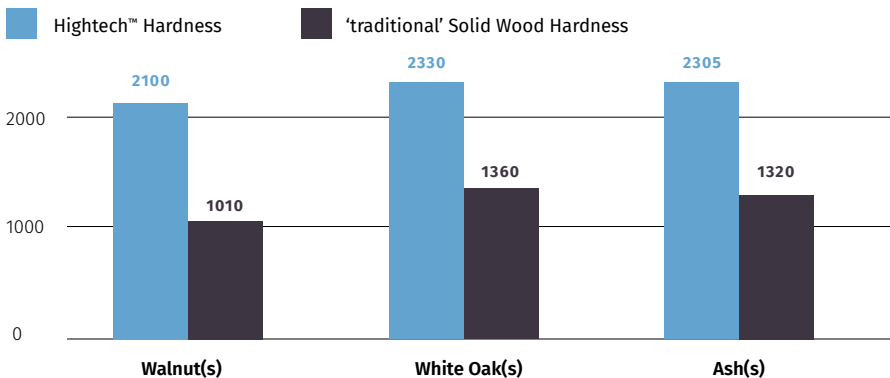
What makes the Hightech Woods so great is its' dent resistance and relative hardness.



Janka ball hardness representation (ie: better dent resistance for Hightech Woods)

One of the main innovations surrounding Hightech's fusion construction is its' densified composite wood core, the method used to attach the wood veneer to it, and how that affects the materials' hardness. Using a 'nano' resin to bond the layers together, ensures that the core materials' hardness is transferred to the wood veneer above. This microscopic fusion increases the woods' Janka hardness, boosting the extremely important impact/dent/gouge resistance.

In real terms, the Hightech Woods have 3x the impact resistance (despite being almost twice as hard) when compared to traditional wood flooring of the same species. Intuitively, if a product shows less wear, it will look better for longer, and will less likely need to be refinished or replaced.



Relative hardness of Hightech Woods version of species relative to standard species

# Stability

Hightech's core is the driver of the products' stability.

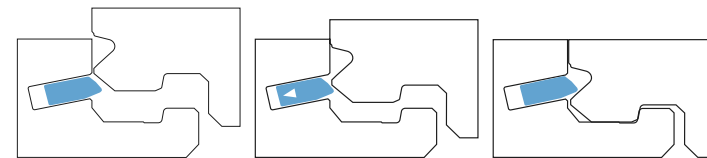
Due to its' construction and density, and the thickness of the face veneer material, Hightech Wood achieves unmatched stability, which in real terms means that it will NOT gap over time or with seasonal climatic changes. When compared to a solid wood product of the same size, (largely due to its' density), which ensures the extremely large sized planks do not gap over time.

If you have ever been through a seasonal cycle of expansion and contraction of a 'solid' wood floor, you know this is a huge product differentiator, that not only affects the 'aesthetic' but the materials' tendency to become damaged from topical moisture.

# Ease of Installation

**Due to the 'technology' behind locking mechanism ('drop and lock' – made with a reinforced tongue):**

- ▶ Seams are **impervious to topical moisture for over 24 hours**
- ▶ Made with a **water-resistant core** (< 5% swell rate)
- ▶ Suitable for applications **On, Above, or Below 'grade'**



**Installation is done at lightening speed:**

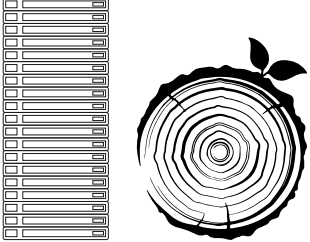
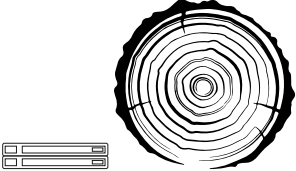
- ▶ Professional Installation (open room): 100 sq.ft. in less than 5 minutes
- ▶ DIY Installation (open room): 100 sq.ft. in approx. 10 minutes

**Save time.....save money.....and, have a better product!**

# Sustainability

**'Sustainability' and environmental health considerations drive our product innovations and choices. We believe that our Hightech Woods flooring is a posterchild of sustainability. Beyond its' durability in rigorous commercial applications and its' use of non-toxic adhesives and finishes, Hightech offers real wood with a yield of 10x that of solid wood.**

**Wood Veneer to maximize yield** – by using a veneer over a solid plank, and optimizing its' thickness (as it relates to durability, stability, and refinish ability), the yield from the harvested trees is 10x what it would be compared to using a traditional plank.

Hightech Woods	'traditional' Solid Woods
	
<p>Hightech has 10x the yield of finished material when compared to 'solid' wood</p>	

**"FSC" core material** – by using by-product and sustainable manufacturing inputs that are additionally 'FSC-certified', the material follows a chain that only the most truly sustainably sourced manufactured products can adopt.

**Economics and Carbon emissions** – natural flooring products that last longer and are easier to maintain, decrease the energy and carbon use as it relates to global sourcing, production, and frequency of replacement.



Chestnut Oak (Massive)

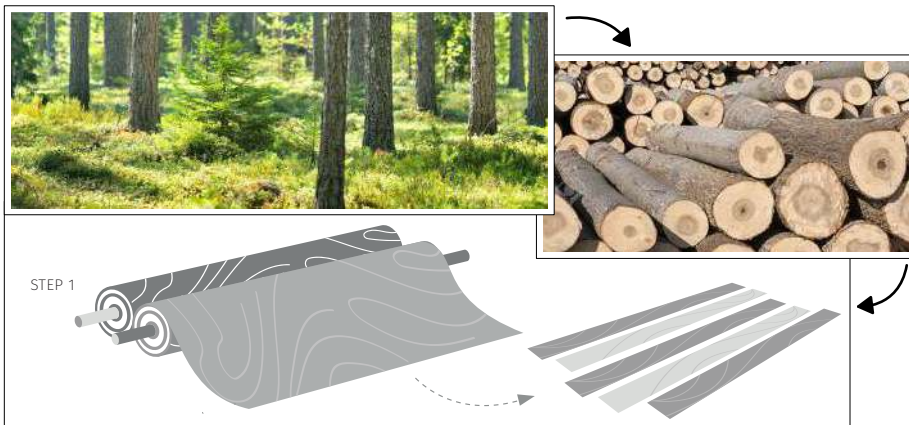
# Strandwoven® Flooring

TIMBER / BAMBOO / DensaCORE

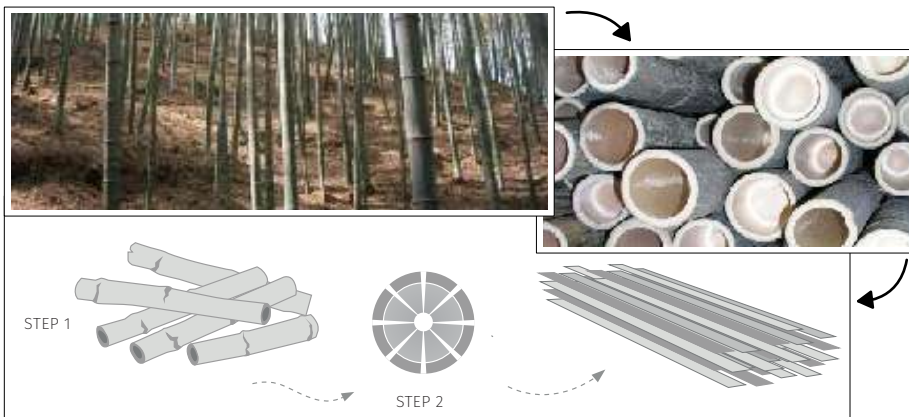
**Strandwoven®** is a line of extremely dense and stable flooring that is made by compressing 'stranded' input material (wood veneers or bamboo strips) into a densified log and then re-sawing it into planks. We offer **Timber** products made of wood veneer, and **Bamboo/DensaCore** products made of bamboo.

## RAW MATERIAL PROCESSING (from forest to 'strand')

### TIMBER - Processing

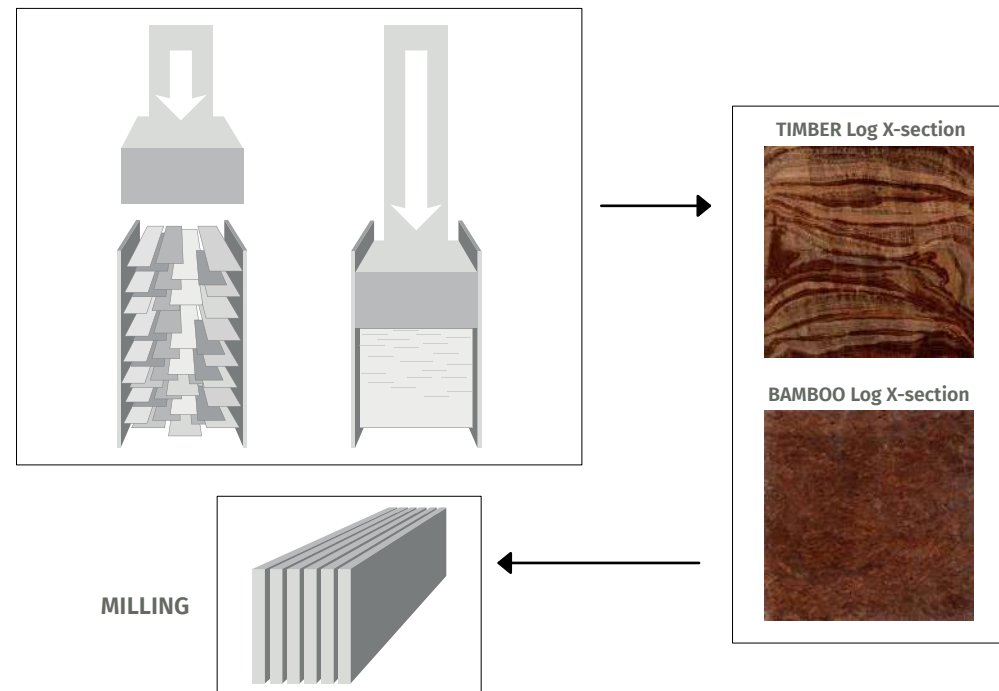


### BAMBOO - Processing



## COMPRESSION

Once the wood or bamboo material is processed into strips, a light adhesive is applied to the material before being stacked into a form and compressed under between 3600-4000 tons of pressure into a densified log. Once compressed, it is cured under heat, and then the log is milled into solid planks or veneers for flooring or panels.



## Strandwoven Processing Benefits:

- ▶ Uses Post-industrial recycled input materials (ie: **low carbon footprint**)
- ▶ Small 'strand' size decreases materials' 'memory' (ie: **greater stability with expansion/contraction**)
- ▶ Compressing fibers decreases 'open cell' space, significantly increasing hardness (ie: **less 'wear'/dents/scratches over time, effectively decreasing maintenance costs while increasing longevity**)



# Strandwoven® TIMBER

**Strandwoven® TIMBER** is a unique and beautiful, commercial-grade densified wood that offers over 3.5x the hardness and stability of Oak. Made by using our proprietary and patented process (**USPTO: 3803-001 PCT.US** – “Method of Forming a Reconstituted Wood Block”). Strandwoven TIMBER provides ‘reciped’ visuals that vary based on the source, size and selection of input fibers. Though the product line is expanding, our main recipes are Sunburst (a vibrant mix of stained veneers) and Natural (a mix of natural and steamed wood fibers). TIMBER is available as Prefinished (beveled) and Unfinished (square edged for a seamless installation), which can further be ‘stained for a truly customized look.

- ▶ Compared to OAK – **3.5x hardness** (ie: less denting) and **3x stability** (ie: less expansion/contraction)
- ▶ **Made from ‘by-product’** inputs and veneers
- ▶ **Class “A” for fire** (ASTM E84) – ie: suitable for Class A wall installations
- ▶ Compliance: **CARB Phase 2, NAUF, LEED, EPA TSCA Title VI**
- ▶ For use on floor and walls



TIMBER (Sunburst)

## Colors:



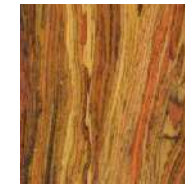
Natural Light



Natural Dark

**Plank Size:** 5-1/2" x 48" x 1/2"

**Finish:** UV-cured acrylic commercial-grade urethane



Sunburst

**Plank Size:** 3-7/8" x 72" x 9/16"

**Finish:** available only in Unfinished



TIMBER (Sunburst - on walls)



TIMBER (Sunburst)



# Strandwoven<sup>®</sup> BAMBOO

**Strandwoven<sup>®</sup> BAMBOO** employs the Strandwoven technology, using small strands of fast-growing bamboo as the input material. By minimizing the strand size (ie: consider the diameter of a chopstick), inherent fiber memory is minimized, ensuring that when compressed the material retains its' shape. Our BAMBOO is has a hardness 3x that of commonly used White Oak, with much greater stability. Our BAMBOO is available in prefinished (in natural shades, as well as stains; all with a micro-bevel), and in unfinished (square edged – to allow site finishing and a seamless installation).

- ▶ Compared to OAK - **3x hardness** (ie: less denting) and **2.5x stability** (ie: less expansion/contraction)
- ▶ Made from '**rapidly-renewable**' bamboo (5-year harvesting cycle)
- ▶ Compliance: **CARB Phase 2, NAUF, LEED, EPA TSCA Title VI**
- ▶ For use on floor and walls



BAMBOO (Natural)

## Colors:



Light



Palamino



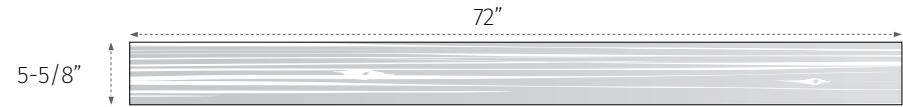
Dark



Espresso Scraped

\* check website for full list of color options

**Plank Size:** 5-5/8" x 72" x 9/16"



**Finish:** UV-cured acrylic commercial-grade urethane (or Unfinished)



BAMBOO (Dark)

# Strandwoven® DensaCORE

**Strandwoven® DensaCORE** is our Strandwoven BAMBOO, which is veneered and then mounted onto a ground up naturally occurring stone core made of Calcium Carbonate. Not only does the DensaCORE visually mimic our Strandwoven Bamboo (because that is what it is), you get the added benefit and water resilience and density of this cutting-edge core material. Suitable commercially, though most commonly used in 'multifamily' projects, DensaCORE really hits the mark on durability and longevity. Available in the steamed Dark version as found in Strand woven BAMBOO, as well as a curated selection of topically stained options

- ▶ Janka Hardness  $\geq 5400$  (ie: **over 4x harder than Oak**)
- ▶ **Water-proof composite limestone core** enables use in the most demanding and rigorous environments
- ▶ Made with an **integrated acoustical and dampening underlayment**
  - Impact Insulation Class/ **IIC = 62**
  - Sound Transmission Coefficient/ **STC = 53**
- ▶ Compliance: **CARB Phase 2, NAUF, LEED, Floorscore, European Super E0**



DENSACORE (Nantucket)

## Colors:



Nantucket



Driftwood



Dark



Cinamon



Weathered



Dark Walnut

\* check website for full list of color options

**Plank Size:** 5-1/8" x 36" x 3/8"



**Finish:** UV-cured acrylic commercial-grade urethane



DENSACORE (Espresso scraped)



# ComCORK™

'PVC-free' commercial flooring

**ComCORK** ComCORK is a commercially rated, PVC-free Cork plank flooring product made with a densified waterproof core comprised of a proprietary mixture of cork and recycled components. Supplied in fixed lengths, the ComCORK Planks are also low-VOC, PCP-free, and suitable for 'high traffic' commercial applications.

- ▶ **PCB/PVC-free** and **low-VOC**
- ▶ **Waterproof 'recycled' composite core**
- ▶ High Impact Insulation Class/ **IIC = 65**
- ▶ High **Impact Sound Reduction = 18 dB**
- ▶ High Sound Transmission Coefficient/ **STC = 53**
- ▶ Compliance: **Greenguard GOLD, LEED** and **BREEM-compliant**
- ▶ **10-year Commercial Warranty**



*Jungle Light*



*Barley Natural*



# ComCORK™ Naturale

**ComCORK Naturale** is all made with 'natural cork veneers' applied to the cork-composite substrate. Available in different patterns, some with different stains, the 'look' of the ComCORK can vary significantly to fit the desired décor.



*Barley Natural*



*Barley Brown*



*Barley Espresso*



*Barbera Natural*



*Chardonnay*



*Forest Floor*



*Petrified Forest*



*Jungle Light*



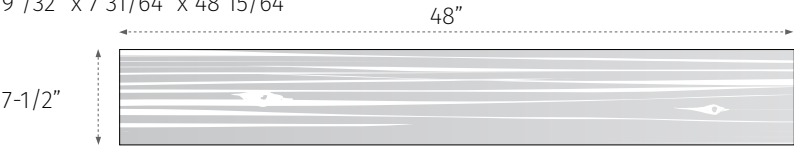
*Barbera Dawn*



*Jungle Medium*

\*also available in select 'wood' visuals  
 \* check website for full list of color options

**Plank Size:**  
 9 1/32" x 7 31/64" x 48 15/64"



**Finish:** Elastic Resin nano-particle coating



*Barley Natural*



*Barbera Natural*



# Versacork®

## Post-Industrial Cork Mosaic Tile

**Versacork®** is a tile mosaic made from rapidly renewable, 'post-industrial' recycled wine cork discs sourced as a by-product wine stopper/bottling industry in Portugal. Once the cork bark is peeled from the Cork Oak tree (the tree left to regenerate), the cork slabs are flattened with steam, before 'stoppers' are cut from the slabs. Versacork uses the discards from those not selected for bottling, which are then cut into 1/4" discs and mounted onto a mesh backer. The value of the Versacork is tied to cork's inherent technical attributes, but specifically in that the mosaic uses 'unaltered' cork (meaning it is not re-constituted and bonded with glue).



Natural Cork Forest

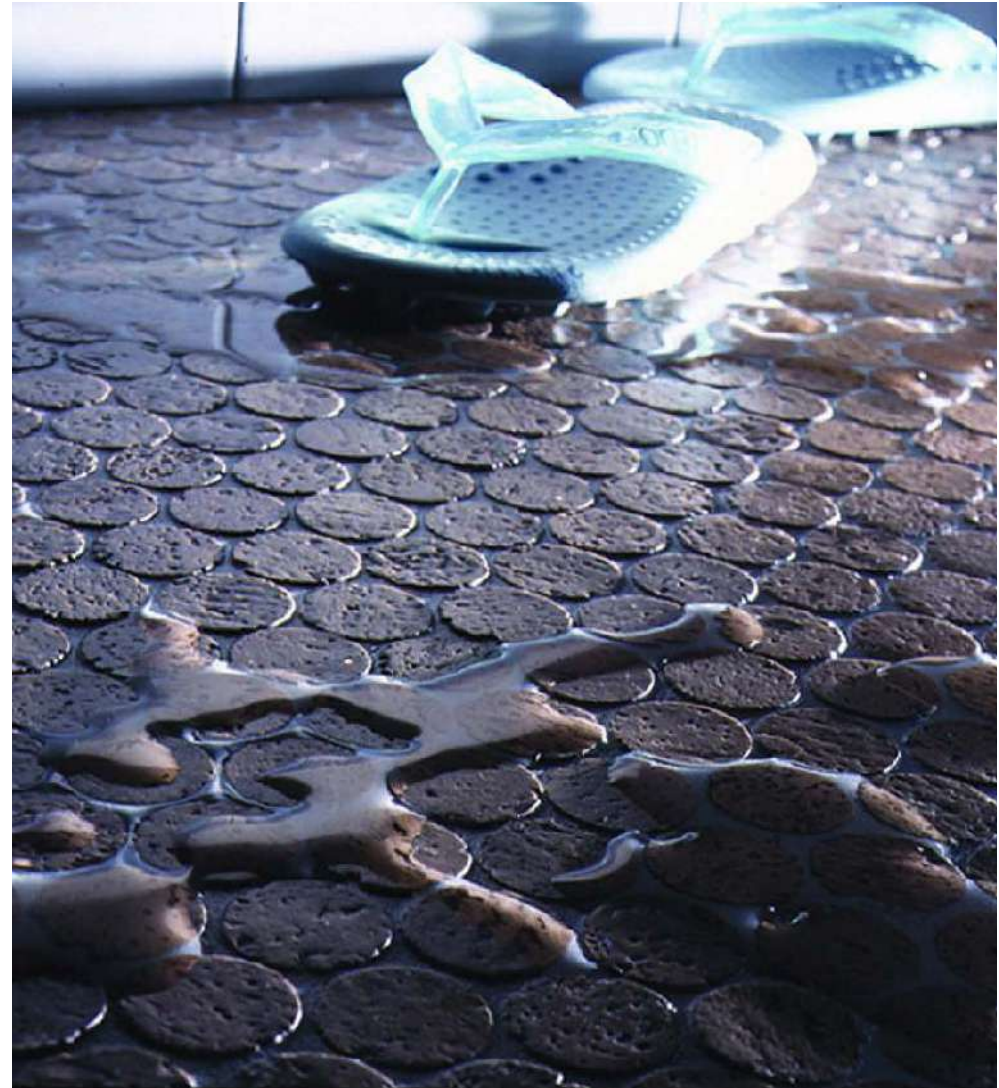
- ▶ Versacork is made from **'post-industrial'** material, which is also **'rapidly- renewable'**
- ▶ **Impermeable to moisture** (can be used in wet applications like showers, etc.)
- ▶ High 'slip-resistance' (**ADA-compliant**)
- ▶ **Extremely 'elastic'** (soft under-foot; compressing under load, then rebounding)
- ▶ Provide **thermal insulation** (it radiates body temperature back when touched)
- ▶ Provides **unmatched versatility in design** (choice of grout and discs can be colored)



Making cork Stoppers



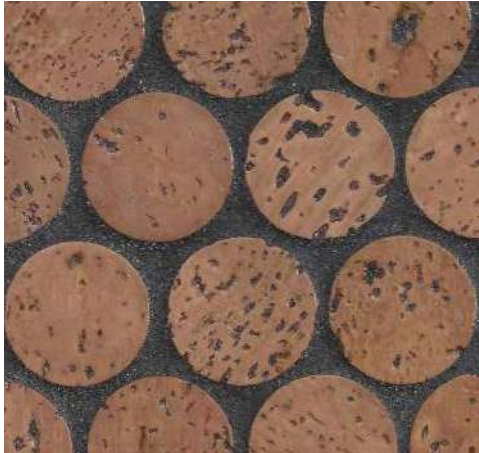
Wine corks



Premium – Spa Floor

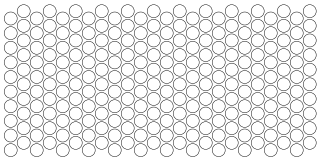


# Versacork®



Premium

Sheet Size: 1' x 2'

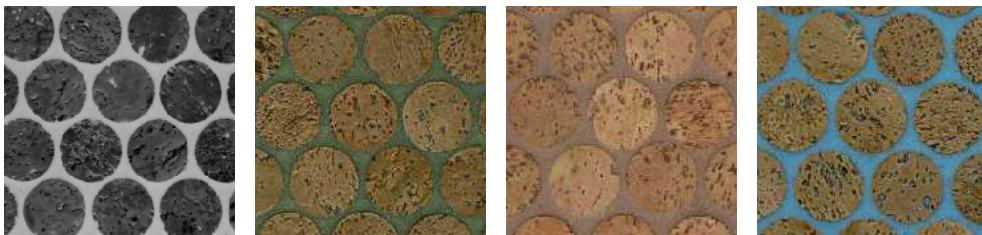


Disc size: 1"

**Finish:** Prefinished (UV urethane) or Unfinished (for stain applications)

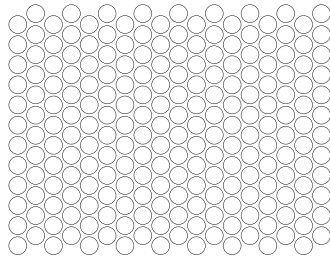
**Installation:** Grout once adhered

**Examples of stains and grouts** (almost an unlimited array of options)



MEGA

Sheet Size: 2' x 2'



Disc size: 1 3/8"



Premium (Natural - Gym)



Thermal value



Premium (Natural - Kitchen)



Premium (Natural - Dining Hall)





SUSTAINABLE  
F L O O R I N G

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www.SustainableFlooring.com

303-544-6076

Thank you for your interest in Sustainable Flooring.

Please also visit our partner companies and product lines:

**Décor Acoustics** – *specializing in ‘acoustic’ products*

([www.DecorAcoustics.com](http://www.DecorAcoustics.com))

CoreBOO™ - *bamboo acoustic panels, planks, and slat walls*

WAVE™ Panels – *moulded ‘wave’ panels from recycled PET felt*

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