



WOOD TILES

July 2019

## BEAUTY, LONGEVITY, AND EXCEPTIONAL VALUE

### BISON WOOD TILES

Bison Wood Tiles offer the design flexibility to create versatile, unique outdoor spaces. Commercial grade, responsibly harvested, hardwood tiles are weather resistant and available in standard and FSC® Certified (SCS-COC-002585) species.

- Species include: Bamboo, Cumaru, Garapa, Ipê, Mahogany, and Massaranduba
- Exclusive Bison FS-1 Fastening Kit & Continuous Kerf Cut Design allows for easy tile attachment, removal, and replacement
- Modular sizes 2' x 2', 4' x 2', 6' x 2', 8' x 2', and 30" x 30"
  - Pedestals to be spaced on a 2' grid for all Bison Wood Tile sizes\*
- Custom sizes available
- Full System Warranty available when installed with Bison Pedestals
- May be covered by one or more Patents
- Bison Ipê Wood Tile Systems can meet:
  - ASTM E108-07a Class A Spread of Flame
  - ASTM C1028-07 Slip Resistance
  - ASTM TAS108-95 Wind Uplift
  - Seismic Design Categories (SDC) A-F



\*Bison 30" x 30" Wood Tiles installed on a 30" grid.

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## Bison Ipê Wood Tiles



Model: WT-IPE-24-SMOOTH

Model: WT-IPE-24-SMOOTH  
 WT-IPE-24-RIBBED  
 WT-IPE-3030-10-SMOOTH

Species: Ipê  
 Color: Brown\*  
 ASTM E108: Class A Spread of Flame  
 Janka Hardness Rating: 3,680 lbs.  
 Dimensions: 23.875" x 23.875" x 1.69"  
 29.875" X 29.875" X 1.69"  
 Weight: 24 lbs. / 34 lbs.  
 Weight PSF: 6 PSF / 5.4 PSF  
 Bison Continuous Kerf cut design



Model: WT-IPE-3030-10-SMOOTH



Model: WT-IPE-48  
 Species: Ipê  
 Surface: Smooth or Ribbed  
 Color: Brown\*  
 ASTM E108: Class A Spread of Flame  
 Janka Hardness Rating: 3,680 lbs.  
 Dimensions: 47.9375" x 23.875" x 1.69"  
 Weight: 48 lbs.  
 Weight PSF: 6 PSF  
 Bison Continuous Kerf cut design

\*Wood tile colors may differ than pictured and change without notice.



## Bison Cumaru Wood Tiles



Model: WT-CUMARU-24  
Species: Cumaru  
Surface: Smooth  
Color: Golden brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,540 lbs.  
Dimensions: 23.875" x 23.875" x 1.69"  
Weight: 24 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design



Model: WT-CUMARU-48  
Species: Cumaru  
Surface: Smooth  
Color: Golden brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,540 lbs.  
Dimensions: 47.9375" x 23.875" x 1.69"  
Weight: 48 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design

\*Wood tile colors may differ than pictured and change without notice.



## Bison FSC® Ipê Wood Tiles



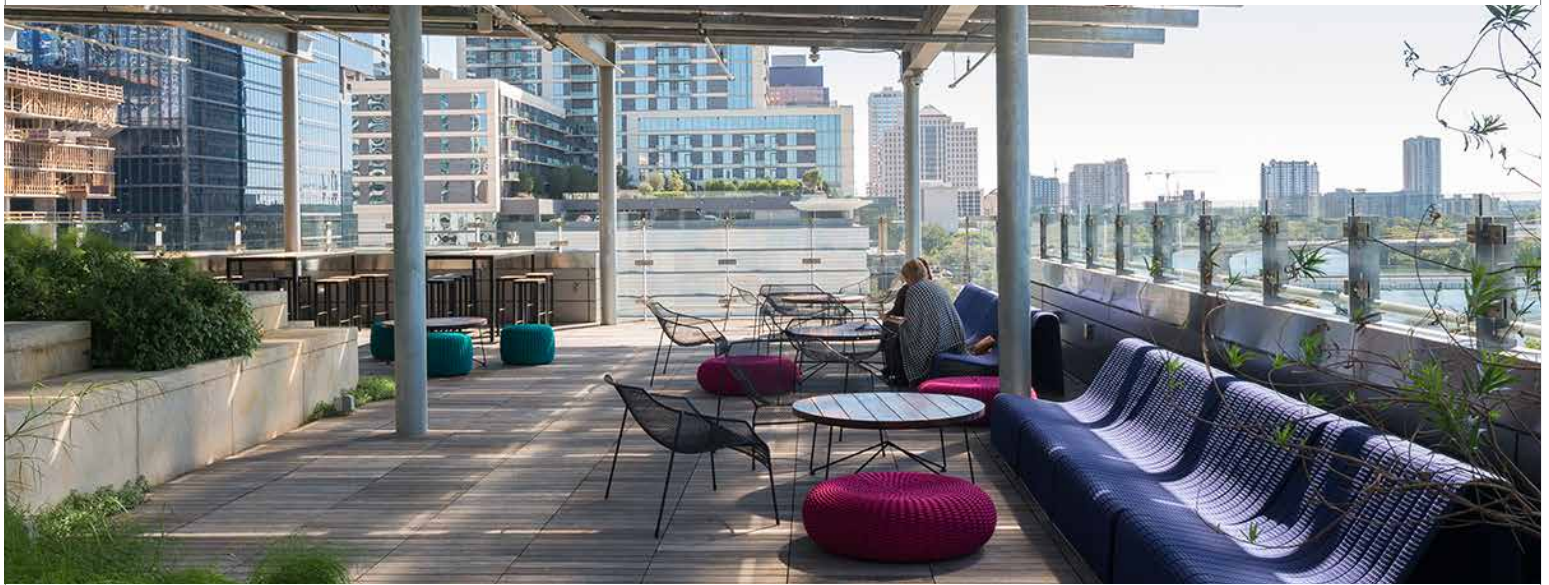
Model: WT-FSC-100%-IPE-24  
Species: Ipê  
Surface: Smooth  
Color: Brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,680 lbs.  
Dimensions: 23.875" x 23.875" x 1.69"  
Weight: 24 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design

## Bison FSC® Garapa Wood Tiles



Model: WT-FSC-100%-GARAPA-24  
Species: Garapa  
Surface: Smooth  
Color: Golden brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 1,630 lbs.  
Dimensions: 23.875" x 23.875" x 1.69"  
Weight: 24 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design

\*Wood tile colors may differ than pictured and change without notice.



## Bison FSC® Cumaru Wood Tiles



Model: WT-FSC-100%-CUMARU-24  
Species: Cumaru  
Surface: Smooth  
Color: Golden brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,540 lbs.  
Dimensions: 23.875" x 23.875" x 1.69"  
Weight: 24 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design

## Bison FSC® Massaranduba Wood Tiles



Model: WT-FSC-100%-MASS-24  
Species: Massaranduba  
Surface: Ribbed  
Color: Reddish brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,190lbs.  
Dimensions: 23.875" x 23.875" x 1.69"  
Weight: 24 lbs.  
Weight PSF: 6 PSF  
Bison Continuous Kerf cut design

\*Wood tile colors may differ than pictured and change without notice.



## Bison Mahogany Wood Tiles



Model: WT-MAHOGANY-24-5-SMOOTH

Species: Fijian Mahogany

Surface: Smooth

Color: Golden brown\*

ASTM E108: Class A Spread of Flame

Janka Hardness Rating: 800 lbs.

Dimensions: 24.125" x 24.125" x 1.77"

Weight: 14 lbs.

Weight PSF: 3.5 PSF

Bison Continuous Kerf cut design

Bison Genuine Mahogany Wood Tiles are harvested from government regulated Fijian plantations. The forests are closely regulated and adhere to strict performance requirements and protocols. The mahogany adheres to these same protocols during manufacturing in Vietnam to ensure the mahogany only comes from Fijian plantations. Bison Genuine Mahogany Wood Tiles can be easily stained to match interior flooring or to match specific color requirements.

\*Wood tile colors may differ than pictured and change without notice.



## Bison Bamboo Tiles



Model: WT-BAMBOO-24-4-SMOOTH  
Species: Fused Bamboo  
Surface: Smooth  
Color: Dark brown\*  
ASTM E108: Class A Spread of Flame  
Janka Hardness Rating: 3,850 lbs.  
Dimensions: 23.875" x 23.875" x 1.57"  
Weight: 24.35 lbs.  
Weight PSF: 6.1 PSF  
Bison Continuous Kerf cut design

Bison Bamboo Tiles are constructed from dasso.XTR Fused Bamboo® that is manufactured using dasso.XTR's patented process, which combines two stages of high heat to carbonize the bamboo, removing all of the starch and sugar, and then restructuring the bamboo, reinforcing its natural strength characteristics. The modified bamboo strands are fused together using phenolic resin - the same resin used to make bowling balls. The result is an extremely dense, durable, exterior-use product composed of 87% natural, fused strand bamboo fibers, and 13% resin.

*NOTE: Please see the most up to date version of Bison Wood Tile Care & Maintenance Considerations for Bamboo Tile specific care, which can be found online at [www.bisonip.com](http://www.bisonip.com).*

### Bamboo Tiles:

- Renewable
- Sustainable
- Durable
- Uniform Appearance



\*Wood tile colors may differ than pictured and change without notice.



## Bison Special Order Wood Tiles

Please inquire for availability of other wood species.



Model: WT-IPE-48-ECO-SMOOTH

Model: WT-IPE-48-ECO-SMOOTH

WT-IPE-72-SMOOTH

WT-IPE-96-SMOOTH

Species: Ipê

Surface: Smooth

Color: Brown\*

ASTM E108: Class A Spread of Flame

Janka Hardness Rating: 3,680 lbs.

Dimensions: 47.9375" x 23.875" x 1.69"

72" x 23.875" x 1.69"

96.0625" x 23.875" x 1.69"

Weight: 60 lbs. / 71 lbs. / 88 lbs.

Weight PSF: 7.5 PSF / 5.9 PSF / 5.5 PSF

Bison Continuous Kerf cut design



Model: WT-IPE-72-SMOOTH



Model: WT-IPE-96-SMOOTH

\*Wood tile colors may differ than pictured and change without notice.





## Bison Custom Wood Tiles

Bison custom wood tiles can be manufactured to your specific design requirements. Contact the Bison sales team for more information.



## Sourcing

Bison is committed to ethical business practices and responsible interactions with our employees, customers, and suppliers. Bison ensures that the hardwoods used in all our wood tile products are harvested from sustainable sources that comply with strict regulations regarding extraction, milling, and transport. All Bison Brazilian Wood Tiles meet the IBAMA (Brazilian Institute of Environment and Renewable Resources) requirements that show Proof of Origin and Legal Harvesting. Bison is committed to meeting the Lacey Act's objectives of preventing illegally sourced woods from being trafficked in the United States. Bison only chooses global partners who support these core values to meet or exceed the standards of environmental management. Bison will not knowingly transport, sell, receive, or purchase any wood that has been illegally sourced.



## Installation

Bison recommends the use of Bison Pedestals and the FS-1\* Wood Tile Fastening Kit when installing Bison Wood Tiles. The Bison Pedestal/Wood Tile System installs quickly, securely, and allows for single tile removal after installation if needed. The FS-1, available exclusively from Bison, fastens Bison Wood Tiles to Bison Pedestals without penetrating or damaging the wood. When installing an FS-1, use the long screw for adjustable pedestals or the short screw for HD50 and HD75 fixed height pedestals. Using the wrong screw could cause damage to the roofing membrane. *NOTE: For more information, please reference the most up to date version of the Bison Wood Tiles Installation Details, which can be found online at [www.bisonip.com](http://www.bisonip.com).*

## Testing

Bison Ipê Wood Tiles meet or exceed these standards.

Note: Customer to verify acceptable uses for each project according to the presiding building code authority. All products to be installed per the most up to date Bison Wood Tiles Installation Details and/or Specifications at the time of installation, which can be found online at [www.bisonip.com](http://www.bisonip.com).

Description	Test	Bison Ipê Results/Requirements
Slip Resistance	ASTM C1028	SCOF Dry .90 and Wet .72
Solar Reflective Indices	ASTM E 1980-11	45 (Average) New 36 (Average) Weathered One Year
Solar Reflectance	ASTM C1549-09	0.403 New 0.321 Weathered One Year
Hemispherical Emittance	ASTM C1371-04a	0.894 New 0.925 Weathered One Year
Wind Uplift on Pedestals	FBC TAS-108	Aerodynamic Multiplier with Bison Wind System & Installation Guidelines
Seismic	ICC ES AC-156	For use in Seismic Zones A-F with Bison Seismic System & Installation Guidelines
Fire – Spread of Flame	ASTM E108	Class A Spread of Flame
Fire – Flame Spread & Smoke Developed	ASTM E84	Class B
Fire – SF WUI Under-Flame Test	SFA 12-7-A-4 Part A	Pass
Concentrated Load on Versadjust Pedestals	CISCA	Maximum Total Load 1,000 lbs (4,448 N) FoS:3
Uniform Load on Versadjust Pedestals	ICC ES AC300-2010	Maximum Total Load 688 psf (33 kPa) FoS:3

\*US Patent #8,302,356 and Patents Pending.

# Care & Maintenance Considerations

Bison Wood Tiles are an ideal long-lasting, low-maintenance decking solution providing warmth, excellent weather resistance, and architectural charm to decks.

## Wood Characteristics

Bison Wood Tiles are made of South American (Cumaru, Ipê, Garapa, and Massaranduba), Fijian (Mahogany), and Chinese (Fused Bamboo) hardwoods which contain a rich variety of graining and coloration, are exceptionally dense, and resistant to insects. Bison Wood Tiles are a natural material that can absorb or lose moisture in different climates. The natural shading, coloration, and graining variations add to the architectural character and overall visual appeal of the finished product.

Being a natural product, Bison Wood Tiles will react to the surrounding environmental conditions. Surfaces may spot or stain when exposed to various materials including: metal, steel, iron, or aluminum filings, pieces, equipment, tools, or fasteners; iron enriched fertilizers; plant debris; animal urine; beverage, food, or grease spills; or mildew that naturally occurs in humid or moist locations. To avoid spotting or staining during construction, Bison recommends covering the deck to reduce exposure to metal that could rust and react with the deck surface.

## Cleaning, Sealing, & Staining

Bison Wood Tiles are made of hardwoods that will weather over time, developing a silvery-gray patina. In order to maintain the original coloring, Bison Wood Tiles can be periodically cleaned and sealed. Use deck products designed for hardwoods. Spot cleaning can be done, but for a consistent appearance, Bison recommends cleaning the entire deck. Most decks need to be cleaned after installation is complete.

Test any cleaners, brighteners, or sealants in an inconspicuous area first before applying them to the installed deck. In addition, always check with the manufacturer of your roof membrane to ensure that any cleaning solution, stain, oil, deck brightener, or bleach will not compromise or damage the waterproofing membrane. Remember to use safety glasses, respirators, and gloves in handling any materials that contain chemicals. Refer to product manufacturer's SDS for more information on chemical components and safe handling practices. CAUTION: Do not scrub tiles with wire, iron, or steel brushes.

The following manufacturers offer products specifically designed for use with dense hardwoods: Messmer's, Penofin, Defy, and TimberPro. Follow the manufacturers' instructions and repeat as needed to clean stubborn stains. Rinse the deck, adjacent walls, and surrounding areas thoroughly with water prior to and after using wood cleaners or brighteners. Once cleaned and dry, you may apply a UV finish or sealant to the wood if desired.

*NOTE: Additional Bison Wood Tile Care & Maintenance Considerations and Wood Tile Cleaning Recommendations are available online at [www.bisonip.com](http://www.bisonip.com).*