

# Bison Wood Paver System



## Overview

Versico has partnered with Bison Innovative Products to offer the Bison Wood Paver System for inclusion in Versico's industry-leading single-source overburden warranty. Versico's Bison Wood Paver System consists of Ipê or Cumaru pavers in various sizes and finishes, a variety of adjustable and fixed height pedestals, shims, and slope compensators, brace kits for applications where tall pedestals are needed, and a special fastening kit to secure pavers to pedestals without penetrating or damaging the paver. The Ipê and Cumaru wood species are known for their incredible strength, making them an excellent choice for high-end rooftop applications seeking an aesthetically pleasing, natural, modern look. They are an ideal long-lasting, low-maintenance decking solution providing warmth, excellent weather resistance, and architectural charm. The permeable design of the pavers and pedestal setting facilitate excellent rooftop drainage. Bison ensures that the hardwoods used in all wood paver products are harvested from sustainable sources that comply with strict regulations regarding extraction, milling, and transport.



## Products

### IPÊ PAVERS

#### Features and Benefits

- Ipê smooth and ribbed finishes are available in 2' x 2' and 4' x 2' sizes, weighing 6 lbs. per square foot
- Ipê smooth Eco is available in 4' x 2' size, weighing 7.5 lbs. per square foot – the smooth Eco finish offers a more competitive price point than the standard smooth and ribbed finishes
- Janka Hardness rating of 3,680 lbs.
- Constructed from responsibly harvested hardwood
- Will weather over time, developing a silvery-gray patina



Ipê Smooth Eco (Only available in 4' x 2')



Ipê Smooth



Ipê Ribbed

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## Typical Properties and Characteristics

Description	Test	Result
Slip Resistance	ANSI A137.1	DCOF $\geq$ 0.46 (Wet)
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 Section 1: Concentrated Loads	Maximum Total Load 1,000 lbs (453.59 kg) FoS:3
Uniform Load on Versadjust Pedestals	ICC ES AC300-2010	Maximum Total Load 688 psf (3359.09 kg/m <sup>2</sup> ) FoS:3

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

## LEED® Information

Pre-Consumer Recycled Content (Pedestals and Accessories – Excluding Fastening Kits)	20%
Pre-Consumer Recycled Content (Fastening Kits and Pavers)	0%
Post-Consumer Recycled Content	0%
Extraction Location (Pedestals and Accessories)	Detroit, MI
Manufacturing Location (Pedestals and Accessories)	Denver, CO
Extraction Location (Pavers)	Brazil or Peru
Manufacturing Location (Pavers)	Brazil or Peru

## CUMARU PAVERS

### Features and Benefits

- Cumaru smooth finish is available in 2' x 2' and 4' x 2' sizes, weighing 6 lbs. per square foot
- Janka Hardness rating of 3,540 lbs.
- Constructed from responsibly harvested hardwood
- Will weather over time, developing a silvery-gray patina



## FASTENING KITS

### Features and Benefits

- Installs quickly and securely into paver continuous kerf
- Allows for single paver removal if needed
- Does not penetrate or damage the wood
- Kits come with both a long and short screw – long screws should be used for adjustable height pedestals and short screws should be used for fixed height pedestals
- 12" spline can be added for additional uplift resistance
- Fastening kits are used to attach the pavers to the pedestals to increase uplift performance



## FIXED HEIGHT PEDESTALS

### Features and Benefits

- $\frac{3}{16}$ " precise spacer tabs ensure uniform spacing and facilitate drainage
- $\frac{1}{4}$ ",  $\frac{1}{2}$ ", and  $\frac{3}{4}$ " pedestals can be stacked up to 4 high
- Supports up to 1,250 lbs. per pedestal
- Heights range from  $\frac{1}{8}$ " to 2"
- Fixed height pedestals are used in areas where short pedestal heights are needed for the pavers to achieve a level surface



Ultra Low Height Pedestal



Fixed Height Stackable Pedestal

## ADJUSTABLE HEIGHT PEDESTALS

### Features and Benefits

- $\frac{3}{16}$ " precise spacer tabs ensure uniform spacing and facilitate drainage
- Supports up to 1,000 lbs. per pedestal
- Screw-to-adjust design easily creates a level deck
- Each pedestal comes with a built-in base leveler that compensates for up to  $\frac{1}{2}$ " per foot slope (4%)
- Height ranges from 2.25" – 9"; couplers can be added to tallest pedestals to add up to 4" each
- Available Brace System can be used with adjustable height pedestals for projects where pedestal height needs to achieve 24" to 36" or for installations requiring additional stability
- Adjustable height pedestals are used in areas where taller pedestal heights above 2.25" are needed for the pavers to achieve a level surface



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## SHIMS

### Features and Benefits

- Up to 2 1/8" rigid shims or 1/8" flexible shims can be added above or below the pedestal
- Used under the pedestal to accommodate for sloping substrates
- Used above the pedestal to accommodate for minor leveling of pavers with thickness variations, to prevent paver rocking, or to dampen sound
- Compatible with both fixed and adjustable height pedestals
- Shims are added above or below fixed or adjustable height pedestals. These thin pieces serve multiple purposes in the assembly.



1/8" Rigid Shim



1/8" Flexible Shim

## SLOPE COMPENSATORS

### Features and Benefits

- Placed beneath pedestals to compensate for slope
- Adds approximately 1/4" to pedestal height
- Compensates for 1/4" per foot slope (2%)
- Can be stacked on top of one another to compensate for slope or add to pedestal height
- Slope compensators are used in conjunction with fixed or adjustable height pedestals to offset roof slope for a level paver surface



## Precautions

- Pedestals must be loose laid and installed over Versico HP Mat, 200V, or 300HV protection fabric.
- Fastening kit washer should hook all 4 paver corners and be tightened until the pavers are securely fastened to the pedestal top. Do not overtighten.
- Wood pavers are an untreated, low-maintenance natural product. Varieties in graining and coloration should be expected.
- Bison Wood Pavers will react to the surrounding environmental conditions. They can absorb or lose moisture in different climates. 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.
- Exercise caution when fastening pavers to pedestals or when cutting pavers or pedestals.