



## TECHNICAL DATA

### Key Features and Benefits

- Tropical hardwood properties comparable to Ipe
- Reliable supply from select pre-approved mills
- Kiln-dried in random length tallies
- Grooved for hidden fasteners or traditional S4S
- Two-sided surface: smooth and European moulded
- Matching Abaco railing kits
- 25-year limited warranty

### Characteristics

- Finely textured, straight, tight grain
- Very hard, strong, durable
- Termite- and rot-resistant
- Long lasting natural product

### Beautiful, Durable Hardwood Decking

Pavilion Decking is the perfect solution for exotic-looking wood decks, thanks to its beauty, hardness and durability. Pavilion Decking naturally resists rot, decay and termites, and is kilndried to help reduce splintering, twisting or cracking. Because Pavilion Decking is all-natural, it does not need to be chemically treated. And best of all, it's environmentally friendly.

Board Dimensions Standard deck board sizes are 3/4" or 1" thick x 3-1/2" or 5-1/2" wide, in random length tallies (grooved and traditional). Pre-cut, end-sealed stair treads are available in 5/4x6" and 1x6" in 4- to 6-foot lengths.

Specifications	Pavilion	Ipe
Density	60 lbs/ft <sup>3</sup>	59 lbs/ft <sup>3</sup>
Max. Crushing Strength	11,619 psi	9,920 psi
Shearing Strength	2,798 psi	2,396 psi
Work to Max. Load	17 inch-lbs/in <sup>3</sup>	21 inch-lbs/in <sup>3</sup>
Janka Hardness Test	3,190 lbs	3,680 lbs

### Strength Properties:

Bending Strength (MOR)	29,200 psi	22,500 psi
Modulus of Elasticity (stiffness)	3,450,000 psi	2,920,000 psi
Recommended Joist Span	24 in o/c	24 in o/c

\*ASTM D1037-99. Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials

\*ASTM D143-94(2000)e1 Standard Methods of Testing Small Clear Specimens of Timber



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### Recommended Deck Fasteners

When the preferred method of installation is face screwing, discreet trim head screws are recommended. Pre-drill and countersink each hole. Use two stainless steel screws to secure each board to each joist. Secure with color-coated screw heads for a more desirable look. One option for a screw fastener similar in color to Pavilion Decking is the 8x2-1/2" #34 brown Headcote® screw by Starborn® Industries.

If a hidden fastener look is desired, we highly recommend using the Pavilion Decking Smart-Bit® Pro Plug® System by Starborn Industries, with plugs made from real Pavilion hardwood. Pavilion hidden fastener deck clips are also available for grooved deck boards.

### Hardwood Railing System

The Pavilion all-wood moulded hardwood deck railing system is the perfect complement to your Pavilion deck project. Sold in 6-foot kits, this code-compliant railing system features an elegant, profiled top rail and all necessary components to complete a deck railing section. Pavilion is the perfect choice for a beautiful hardwood deck railing, thanks to its natural ability to resist rot, decay and termites. Pavilion tropical hardwood railing is kiln-dried to help reduce potential splintering, twisting and cracking, for better long-term performance. Also available is a 2x4 railing kit for use with face-mount and in-line balusters.

### Frequently Asked Questions

#### What sizes and lengths does Pavilion Decking come in?

Standard deck board sizes are 3/4" or 1" thick x 3-1/2" or 5-1/2" wide, in random length tallies (grooved and traditional). Railing component sizes: 2"x2", 2"x4", 2"x6", 4"x4".

#### How should I store my Pavilion deck boards?

Pavilion Decking should be stored out of direct sunlight and be allowed to acclimate and stabilize to the installation environment humidity level prior to installing. Once Pavilion Decking is delivered to a job site, be sure to keep the material off the ground by placing a few pieces of scrap lumber under the deck package. Cover the material with a tarp to protect it from the elements (sun and rain). If left uncovered, unfinished, unprotected, Pavilion Decking may warp and split.

#### How much ground ventilation is required when installing Pavilion Decking?

During construction, it is imperative to build the Pavilion deck surface at least 16" above the ground or building surface. Adequate air circulation under the deck surface is needed in order to prevent cupping and warping of deck boards. In wet areas over the water, additional clearance is recommended. In close ground applications a vapor barrier is recommended to prevent moisture from absorbing in to the underside of the deck boards.

#### What joist spans should I use for my deck/dock when using Pavilion Decking?

In residential applications, Pavilion Decking can be installed on joists spaced 24" on-center when the boards are running perpendicular or diagonal to the support joists. Longer spans may be possible: Contact your supplier for additional information.



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### **Cutting blade, routing blade and drill bit type?**

Because Pavilion Decking is very hard and dense, high quality carbidetipped saw/router blades and sharp drill bits should be used.

### **Do you recommend pre-drilling and countersinking?**

Yes. Because Pavilion Decking is very hard, we recommend pre-drilling and countersinking all exposed fasteners.

### **What type of fastener is recommended?**

A #7x2-1/4" stainless steel trim head screw or a hidden fastener designed for tropical hardwood is recommended.

### **Does Pavilion Decking need a specific type of hidden fastener?**

Yes. Install a hidden fastener designed for tropical hardwood. Use hidden fasteners that gap each board with the proper spacing and allow for natural expansion and contraction.

### **Does Pavilion Decking require end sealing if cut?**

Yes. Seal all ends after cutting with an end sealer like Anchorseal® in order to help prevent checking and splitting.

### **Does Pavilion Decking require water sealing?**

Because of the durability of this hardwood, it does not require a water sealant; however, we do recommend that you add a high quality penetrating oil sealant as the final installation step. Left unfinished, the color will fade to a silver/gray tone.

### **How do I clean and maintain Pavilion Decking?**

Periodic washing with mild deck cleaning detergent and water is necessary to remove surface dirt, which accumulates on the surface and in the top grooved areas of the board. Use a soft bristle brush to clean dirt and debris from the top grooves of the board. This will also prevent the buildup of pollen and debris that can cause mold and mildew growth. Pressure washers should be used with a fan-tipped nozzle to avoid cutting into or lifting the wood surface.