

IRON WOODS® Cumaru

“Iron Woods... Its Only Natural”

Species: Dipteryx Odorta

Common names: Cumaru, Brazilian Teak, Tonka

General Characteristics: Heartwood is reddish-brown to light yellowish-brown. Sapwood is distinct and narrow. It has a low to medium luster with a fine texture and an interlocking grain. Cumaru has a waxy or oily feel; and though it has no distinctive taste, it may have a vanilla-like odor. It is rated as easy to air season with a slight tendency to check and with moderate warping.

Durability: The timbers have a reputation for being very durable.

Working Properties: Slightly abrasive, responds well to planing and other machining operations. Good nailing, screwing and gluing properties.

Uses: Common applications include heavy construction, decking, dock fenders, flooring, railroad crossies and tool handles.

Cumaru (Diperyx odorata)

Similar in appearance to Ipe, it can at times be difficult to differentiate to the less trained eye. Cumaru does however have a more coarse and interlocking grain which results in a slightly lower dimensional stability requiring Kiln-drying in dimensions in under 2" nominal in both storage and application. Cumaru is currently being used heavily in the commercial boardwalk industry in 2x4 and 2x6 decking as a lower cost alternative to IPE and where marine borers is not an issue.

Strength & Durability

Cumaru is a golden to reddish brown species of tropical hardwood with similar technical properties to Ipe with exception of its resistance to marine borers.

How does Iron Woods® Cumaru compare to other lumber and decking products?

	<u>Cumaru</u>	<u>CCA-Treated Pine</u>	<u>Composite/PVC Decking</u>
Type	Hardwood	Softwood	Plastic Wood
Maintenance	Low	High	Low
Decay Resistance	High	Varies	Varies
Termite Resistance	High	Varies	Varies
Strength	High	Medium	Low
Movement in Service	Medium-Low	High	High
Fire Rating Class	High	Varies	Low
Weight per cu. ft.	67lbs.	35lbs.	60 to 64lbs.
Bending Strength	22,400	9,900 - 14,500	1,423 - 4,500
E-modulus	3,010,000	1,170,000 - 1,510,000	175,000 to 480,000
Shear Strength	2,395	1,370	561 - 1,010
Hardness	3,340	690	940 - 1,390

Availability

Cumaru is sold in two varieties: yellow and red and is typically sold mixed. Cumaru is best used in applications such as commercial decking, boardwalks, bridges, benches and exterior construction.

Decking – 1x4, 1x6, 5/4x6, 2x4, 2x6

Timbers – up to 12x12 by special order only.

All other dimensions up to 12x12 clear of heart center are special order only.

Finishing

We recommend coating Cumaru to assist the acclimation process and reduce checking. For best performance, coat all four sides and the ends of each board before installation. Use high-quality penetrating oil or water-based exterior sealers that contain mildewcides, fungicides, and UV inhibitors. Ask your local dealer about factory finishing.

“See Installation Guide for Pre Installation Handling and Storage Requirements”

Green by Nature

Green by Nature products meet a specific set of Life Cycle environmental criteria defined as:

- * Product derived from a naturally occurring, renewable and sustainable resources.
- * Not endangered or at risk as per CITES (Convention On the International Trade of Endangered Species)
- * Not harvested from forest areas where traditional or civil rights are violated, converted for plantations or non-forest use.
- * Harvested legally and sourced in compliance with all international laws and regulations pertaining to the trade of plant products and more specifically in U.S. Department of Agriculture “Lacey Act Compliant”.
- * 100% organic, grown without the use of genetic modification or chemical fertilization.
- * Service life exceeds natural growth cycle, sequesters and stores carbon throughout its life cycle.
- * Generates zero post industrial and post consumer non-biodegradable waste.
- * Does not require for service, any specialized handling, storage or disposal procedures. Generates zero post industrial and post consumer non-biodegradable waste.
- * Does not require petroleum based or inorganic chemicals treatments, safe for human and animal contact and meets low VOC emission standards.



To learn more about Green By Nature Certification go to www.greenbynature.com

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414-445-8989