

Bamboo

Uses & Benefits



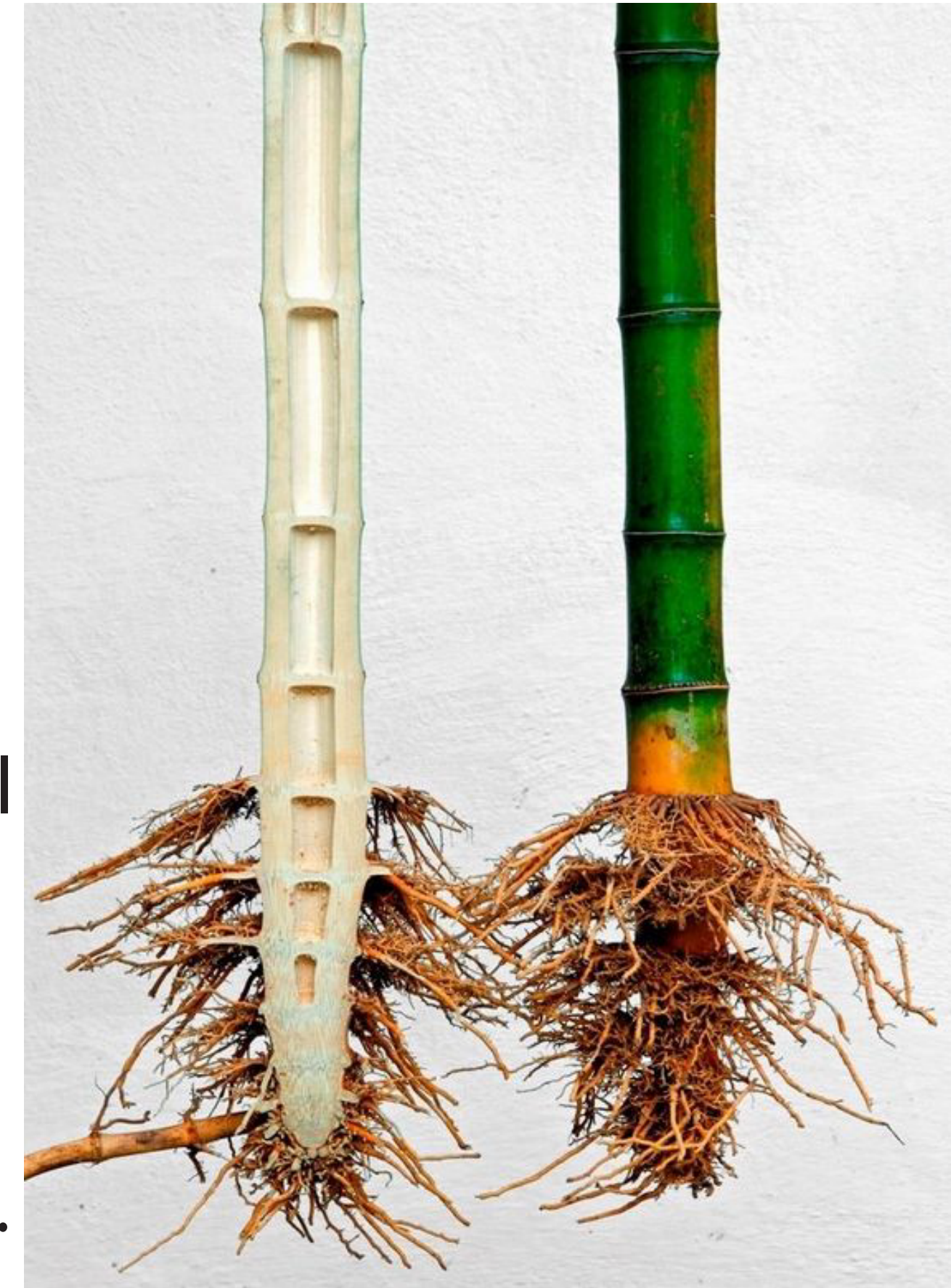
What are the Facts about Bamboo ?

Are you aware that Bamboo ...

1. is a member of the grass family **Poaceae**,
2. plays a distinctive role in **biodiversity and the forest ecosystem**,
3. is an important part of **anti-desertification** projects around the world,
4. possesses a **wood-like nature** that makes certain bamboo species an excellent material for housing and scaffolding.

What are Bamboo Properties?

1. It is one of **the fastest growing plants** in the world.
2. It grows **10-30 cm per day** and reaches its full height in **4-6 months**. (Aminuddin, & Abd. Latif, 1991)
3. It has a unique **rhizome-dependent system**.
4. Its root system can extend up to **100km/ha** and live for a **hundred years**.



Where to find the World's Bamboo Resources?

Asia and Oceania

1. 65% of total world bamboo resources
2. Approximately 24 million hectares
3. 900 species and about 40-50 genera
4. 80% of bamboo species in the world

(Jiang, 2007)

China

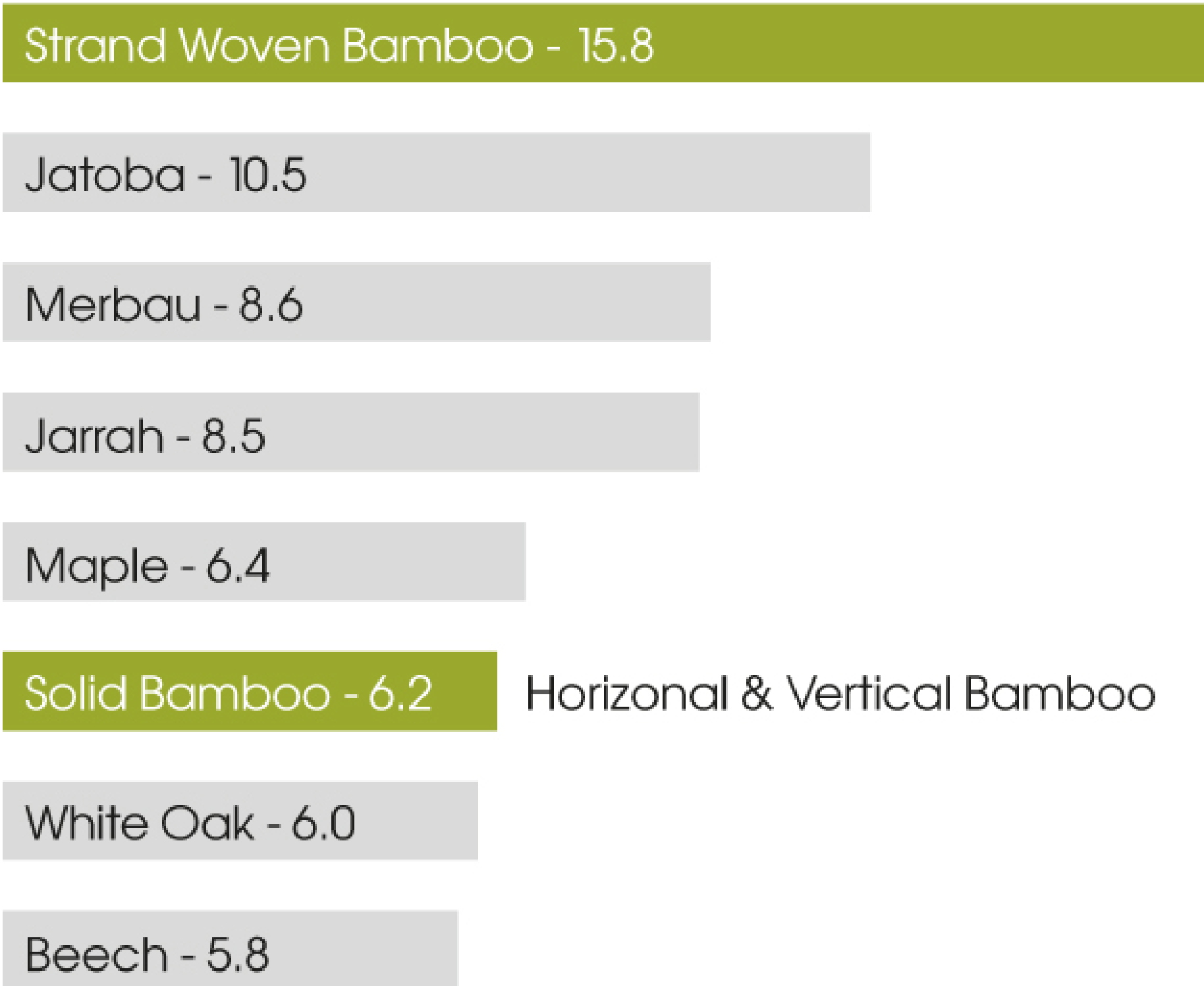
1. Highest biodiversity with over 500 species
2. 5.4 million ha or about 3% of its total forest area is bamboo

Rapidly increasing of about 50,000 ha/year



What is Bamboo Slat Manufacturing Process?

Janka Hardness Scale – Kilonewtons (kN)



What are *Interesting* *Bamboo* *Benefits ?*



1

● **Bamboo Benefit #1 – Eco-Friendly**

Bamboo is a naturally sustainable choice. Bamboo fabric is biodegradable, and it uses trace amounts of water to grow.

2

● **Bamboo Benefit #2 – Antibacterial**

Beyond esthetics, bamboo possesses a unique anti-bacterial and anti-fungal property called “bamboo kun”. This intelligent bacteriostatic property keeps garments fresh and pure.

3

● **Bamboo Benefit #3 – Biodegradable**

Its regenerative nature ensures that it can regrow entirely in weeks and will surely make our planet smile.

4

● **Bamboo Benefit #4 – Odor Resistant**

It's one of the most hygienic materials to use since odor-producing bacteria cannot grow and spread in its ingenious design.

5.

● **Bamboo Benefit #5 – Low Carbon Footprint**

Many fibers, such as regular cotton, require overabundant usage of pesticides and water in their cultivation. Bamboo, on the contrary, requires no agricultural chemicals to thrive.



What products are *made from bamboo?*

- 1. Textile and clothing items**
- 2. Flooring, furniture, worktops and cabinets**
- 3. Weapons for martial arts such as: staffs, swords, bows and arrows**
- 4. Cooking utensils like chopping boards, fruit bowls and chop sticks**
- 5. Sporting equipment, for example, bicycles, surfboards, skateboards, snowboards and fishing rods**
- 6. Architecture**



Cult Gaia Round Bamboo Bag

Due to bamboo's outstanding strength, flexibility, versatility and sustainability, we are seeing more and more everyday products being made from bamboo. Bamboo can be cut into thin strips and glued together. Bamboo fibers can be shredded and woven together to create a stronger and more durable product. China and South East Asia have been using bamboo for centuries for food, writing material, building materials and scaffolding, but more recently bamboo has become very popular for other products such as:



The Bamboo Chair - Chialing Chang



Daniella On Design



Minotake Bamboo Spatula



Bamboo Pavilion | ZUO STUDIO