

T1 goes Bambo²

BAMBOO takes center stage in T1's soon to be released 'Version 4.0' product range.



T1 is known for its audacity to think outside the box: The first to promote and firmly believe in a compact, user-need driven product range following its 'One Man. One Board.' concept.

T1 then set new industry standards with its Version 3.0 introducing the revolutionary 'revoXskin' and 'CarboX' construction.

Now, T1 is taking board building to yet another level with their technology called 'Bambo²/CarboX'.

As of Version 4.0 T1 embraces and incorporates Bamboo veneers in all T1 boards! It is a logical step for this innovation driven company to make the best built boards not only better but also Greener and even more durable.

T1's 'CarboX' construction uses strategically oriented carbon layers, mirrored inside and outside the PVC sandwich skin, paired with T-stringers in deck and bottom to tune and control torsion and flex in its boards depending on their range of use. RevoXskin is a UV-resistant and 100 % waterproof finishing film eliminating the use of any fillers and primers.

By integrating full Bambo² decks and bottoms in its 'Version 4.0' range, T1 is able to further boost the resilience* of its windsurf boards and enhance stiffness and toughness at the same time: Customers will be rewarded with longer lasting products that will keep their crisp and snappy "new board feeling" for many years.

The bamboo fiber excels with an immense tensile strength rivaling many metal alloys but also features a strength-to-weight ratio better than graphite (carbon). This makes the bamboo fiber one of the most resilient natural materials known to man.

* 'Resilience' is the property of a material to absorb energy when it is deformed elastically and then, upon unloading to have this energy recovered.

Using bamboo and reducing the use of man-made materials, T1 achieves extended board longevity – while increasing mechanical proprieties and value – and therefore makes a significant contribution to a 'Greener planet': The longer boards last, lesser petroleum based material will be used to make new ones.

T1 features the new Bambo²/CarboX construction as of their Version 4.0, which shall be available spring/summer 2009.

T1's 'Green' contribution further multiplies:

- No other (wood) material equals Bamboo's renewal rate of up to 1 meter per day. Bamboo grows one third faster than the fastest growing tree!
- No other (wood) material can be harvested without an impact on environment. Bamboo can be cut and is capable of regeneration without the need to replant!
- No other (wood) material takes up as much Carbon Dioxide, the gas blamed for today's global warming. Bamboo is an extremely efficient 'air cleaner'.

Version 4.0 boards feature a Full Bambo² deck and bottom as well as an upgraded 'CarboX' construction:

- CarboX50 for all T1 MauiWaveX wave boards, the optimal flex/stiffness ratio.
- CarboX75 for all T1 CrossX crossover boards, increased stiffness,
- CarboX100 for all T1 FastX free-slalom boards, maximum stiffness,
- CarboX full carbon for T1 SR speed + RS slalom and race boards, ultimate stiffness.

Visit www.thommen1.com, send an e-mail to mark@thommen1.com, call +31 514 524040 or Skype us on T1-sailboards.



Some more words to Bambo²

Bamboo is versatile with a short growth cycle. It can be harvested in 3-5 years versus 10-50 years for most softwoods and hardwoods. Bamboo is the fastest growing plant on this planet. It grows one third faster than the fastest growing tree. Some species grow as much as four feet a day. Thanks to its rapid growth, the yield (weight per acreage and year) is up to 25 times higher than that of timber.

Bamboo can be harvested and replenished with virtually no impact to the environment. It can be selectively harvested annually and is capable of regeneration without need to replant. There is a 3-5 year return on investment for a new bamboo plantation versus 8-10 years for rattan, and even longer for other timber sources.

Bamboo is a viable replacement for wood. It is one of the strongest building materials, with a tensile strength that rivals steel and weight-to-strength ratio surpassing that of graphite. It withstands up to 52,000 pounds of pressure psi. With a 10-30% annual increase in biomass versus 2-5% for trees, bamboo creates greater yields of raw material for use. One bamboo clump can produce 200 poles in the five years it takes one tree to reach maturity.

Bamboo is a critical element in the balance of oxygen and carbon dioxide in the atmosphere. It helps reduce the carbon dioxide gases blamed for global warming. Some bamboo even sequesters up to 12 tons of carbon dioxide from the air per hectare, which makes it an extremely efficient replenisher of fresh air. It is the fastest growing canopy for the re-greening of degraded areas and generates up to 35% more oxygen than equivalent stand of trees.

Bamboo is a renewable resource for agro forestry production. It is used to produce flooring, wall panelling, pulp for paper, fencing, briquettes for fuel, raw material for housing, and more. In the tropics it is possible to grow your own home. In Costa Rica, 1000 houses of bamboo are built annually with material coming only from a 60 hectare (150 acres) bamboo plantation.

Bamboo is a natural control barrier. Because of its wide spread root system and large canopy, bamboo greatly reduces rain runoff, prevents massive soil erosion and keeps twice as much water in the watershed. Bamboo also helps mitigate water pollution due to its high nitrogen consumption, making it the perfect solution for excess nutrient uptake of waste water from manufacturing, intensive livestock farming, and sewage treatment facilities.

Bamboo is a pioneering plant and can be grown if soil is damaged by overgrazing and poor agriculture techniques. Unlike most trees proper harvesting does not kill the bamboo plant so topsoil is held in place. Additionally, because of its dense litter on the forest floor it actually feed the topsoil over time. This will provide healthy agricultural lands for other crops for generations to come.

Current research points to bamboo's potential in a number of medical uses. Secretion from bamboo is used internally to treat asthma, coughs, and can be used as an aphrodisiac. Ingredients from the root help treat kidney disease. Roots and leaves have also been used to treat venereal disease and cancer. Sap is said to reduce fever, and ash will cure prickly heat.

Source <http://www.bambootechnologies.com/allabout.htm>

