

BAMBOOH

Elegant - Durable - Responsible

Moso bamboo

- ✓ **BAMBOOH** is made from the extremely fast growing giant bamboo species "Moso", which is known for its very good CO²-absorbing and oxygen-producing ability.
- ✓ Well stocked (about 7 million hectares) and always from sustainably managed plantations and forests.
- ✓ The Moso bamboo species consists of a single plant with multiple strains, resulting that multiple strains each year can be harvested without the mother plant dying.

Production

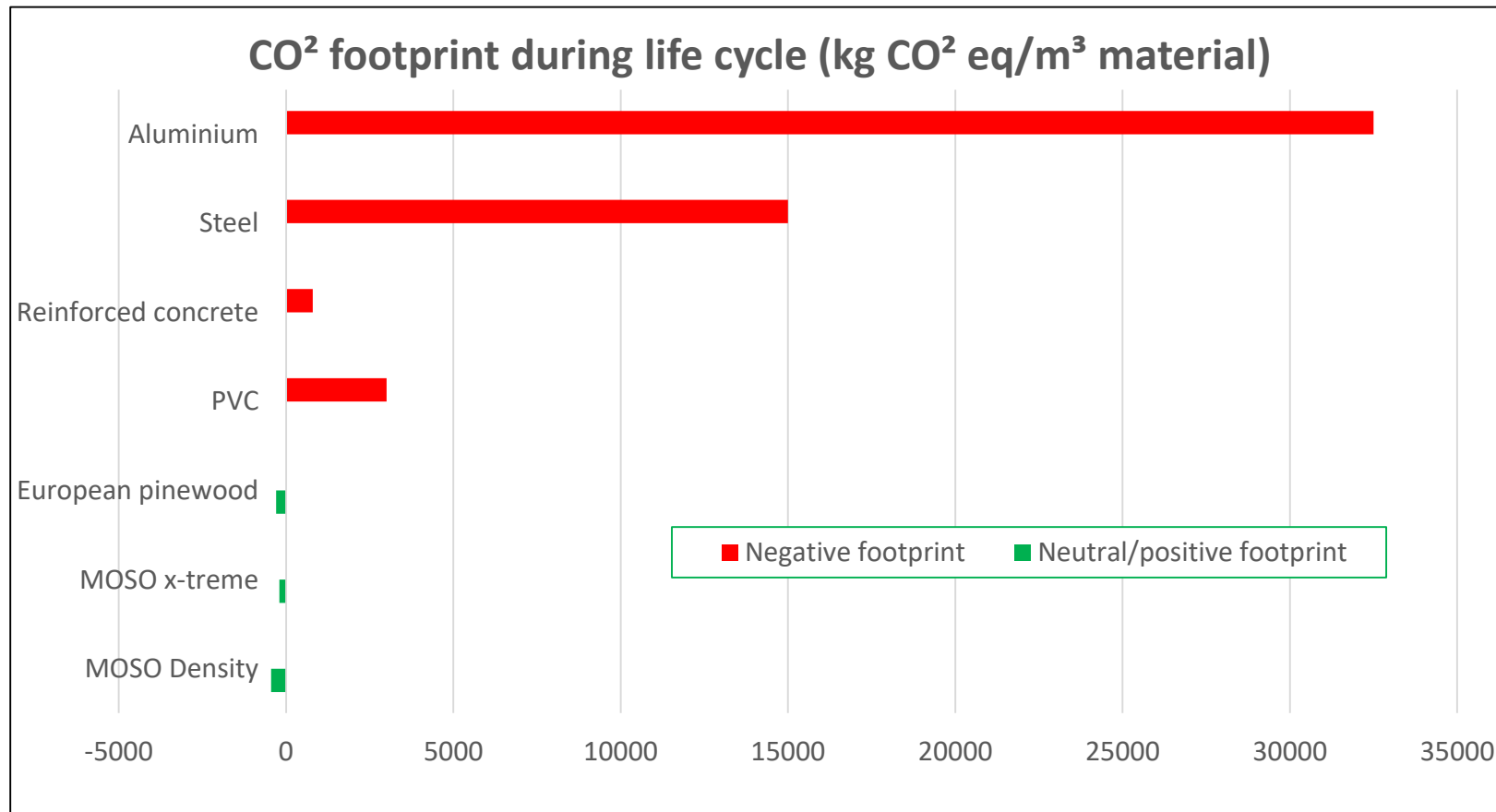
- ✓ The entire MOSO[®]-production chain is FSC-certified.
- ✓ All MOSO[®] bamboo products are made in fully ISO-9001 certified production facilities.
- ✓ Application of extra environmentally friendly adhesives without added formaldehyde, with which the strictest emission standard is met; EO (EU standard = E1).

Use/Recycling

- ✓ Long-term durability: because of the good properties (hardness, density, stability), MOSO[®] bamboo products last a long time, as a result of which CO² is also recorded longer.
- ✓ Because MOSO[®] bamboo products are made from natural material, they do not give any restrictions in the waste phase.
- ✓ If well maintained, MOSO[®] bamboo products can be reused, preferably in similar ones applications (upcycling) or to make chipboard (downcycling).
- ✓ If that is not possible, then it is recommended to use the bamboo material for the production of bio-energy, as a substitute for fossil fuels.

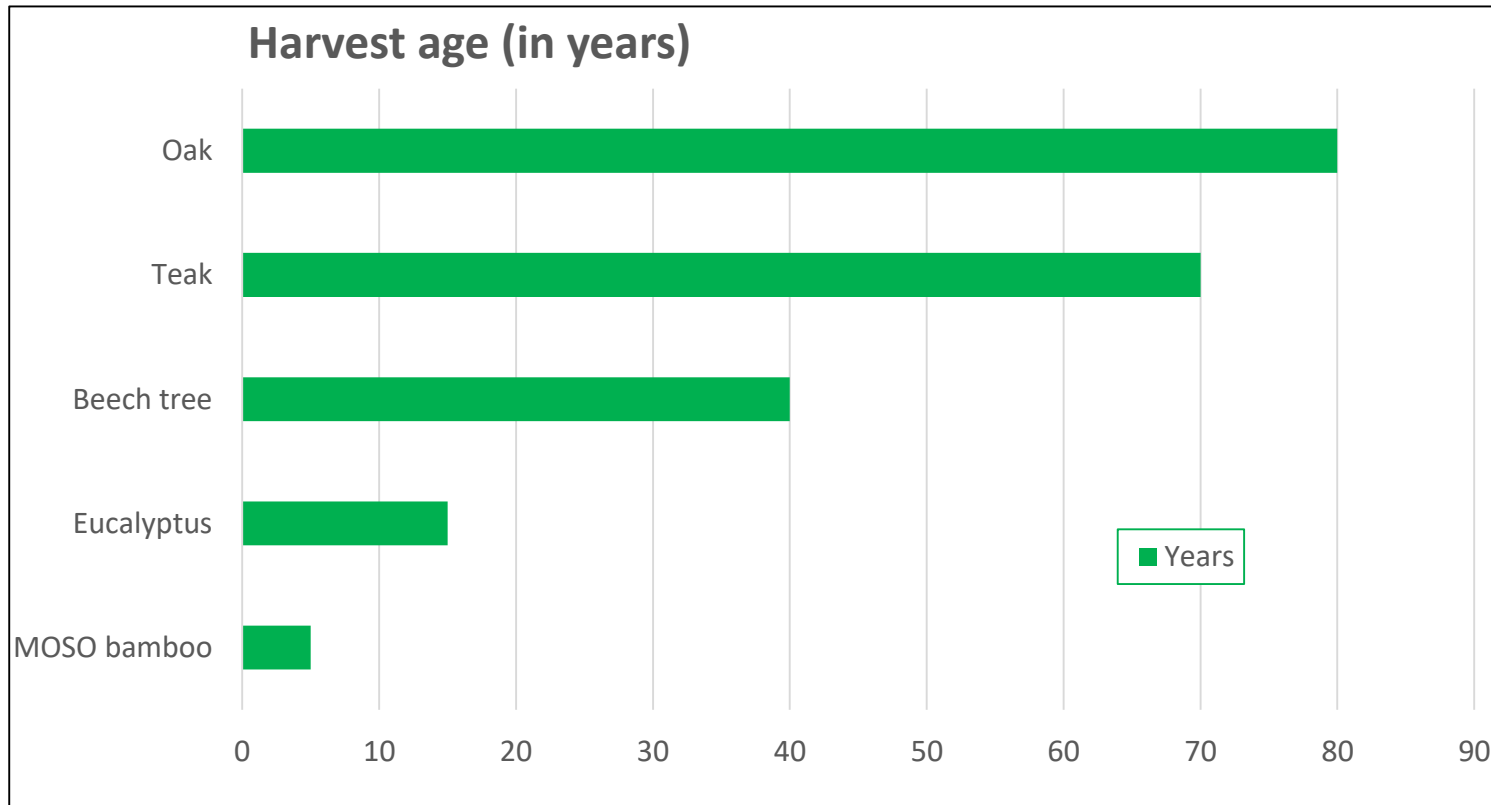
CO² footprint

- ✓ Official Life Cycle Assessment (LCA) and Carbon footprint studies, carried out by Delft University of Technology have shown that all solid MOSO[®] bamboo products are CO²-neutral over the entire life cycle (cradle to grave).



Unprecedented growth speed

- ✓ Moso bamboo is the fastest growing plant in the world.
- ✓ Because of the rapid growth giant bamboo is grown as an agricultural crop; the annual harvest of the adult 4-5 year old tribes provides a stable income for the farmers and stimulates that the plant will reproduce even faster.
- ✓ In contrast to tropical hardwood, there is by definition no deforestation in the production of Moso bamboo.



Bamboo X-treme

- ✓ The **BAMBOOH** X-treme bicycle stand is made of MOSO® bamboo X-treme®; a high quality bamboo species which is in terms of hardness, stability, fire safety and durability, superior to the best tropical hardwood species.
- ✓ Thanks to a unique patented process (ThermoDensity® treatment) the density of the bamboo is increased of pressing bamboo fibers under very high pressure. Stability and durability are improved to a very high level by a special thermal treatment at 200°C.
- ✓ The ThermoDensity® treatment is the only correct method to make bamboo suitable for outdoor applications.
- ✓ The ThermoDensity® treatment increases the density - and therefore the hardness - very strongly, and makes the X-treme bamboo stronger and harder than any other kind of hardwood.
- ✓ As the only bamboo product on the market, X-treme® has the use/risk class 4. Without additional treatment it can be applied for a long time in direct contact with (fresh) water and/or direct ground contact.
- ✓ Achieves a high fire safety class without impregnation with expensive and environmentally polluting fire retardants. This allows MOSO® Bamboo X-treme® to be used in public projects without additional measures.

Technical data

Density: ± 1,150 kg / m³

Resistance to compression: - Brinell Hardness: ≥ 9.5 kg / mm²

Fire behavior: Class B-s1-d0

Sun reflection: 32

Flexural strength: 54.4 N / mm²

CO² neutral

Contribution BREEAM NL: MAT 1, MAT 5 (FSC), MAT 7 (DT) Technische gegevens

Bamboo N-finity

- ✓ The **BAMBOOH** N-finity bicycle stand is made of MOSO® bamboo; a high-quality bamboo species.
- ✓ MOSO® Bamboo N-finity beams are impregnated for outdoor use.
- ✓ Thanks to a special impregnation process, the product achieves the highest durability class according to EU standard EN350.
- ✓ The beams are made by attaching bamboo strips with a patented hook connection.
- ✓ MOSO® Bamboo N-finity has been tested for mechanical properties (bending, pressure, elongation, shear) and can be applied as construction beams.

Technical data

- Density: $\pm 700 \text{ kg / m}^3$
- Resistance to compression: - Brinell Hardness: 4 kg / mm^2
- Fire behavior: Class D-s2-d0
- Natural durability: Class 1 (EN350)
- Bending strength: 56.7 N / mm^2
- CO² neutral
- Contribution BREEAM NL: MAT 1, MAT 5 (FSC)