

BAMBOOH

Elegant – Durable – Responsible

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Moso bamboo

- ✓ **BAMBOOH** is made from “Moso” a giant and extremely fast growing species of bamboo, which is known both for its very good CO²-absorption and oxygen-producing ability.
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- ✓ 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 stalks, meaning that multiple stalks can be harvested every year without the mother plant dying.

Production

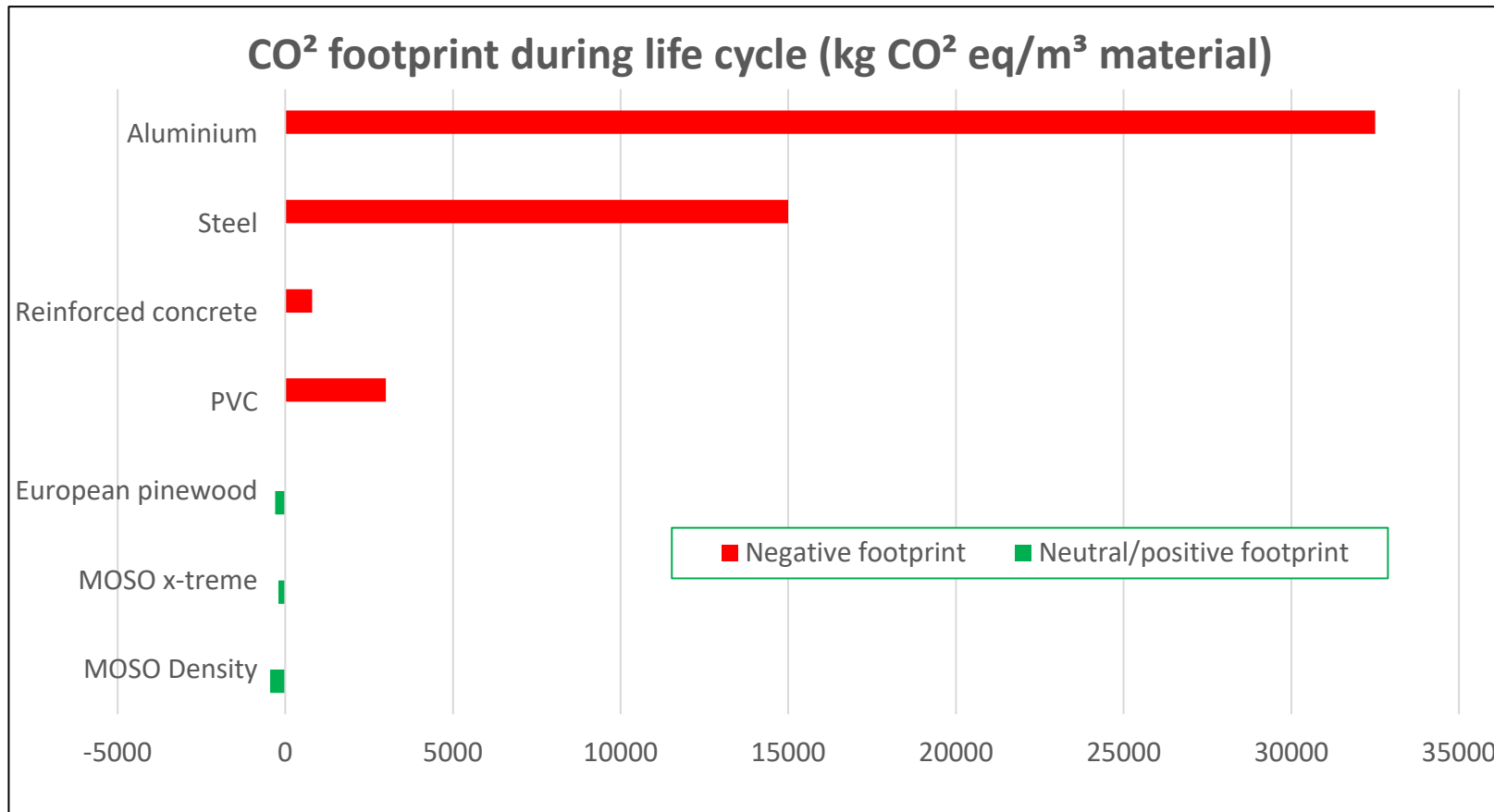
- ✓ All MOSO® bamboo products are made in fully ISO-9001 certified production facilities.
- ✓ Application of extra environmentally friendly adhesives without added formaldehyde, with which the strictest emission standard is met; EO (EU standard = E1).

Use/Recycling

- ✓ Long-term durability: because of their 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 materials there are less restrictions in the waste phase.
- ✓ If well maintained, MOSO® bamboo products can be reused, preferably in similar applications (upcycling) or to make chipboard (downcycling).
- ✓ If that is not possible, then it is possible to use the bamboo material for the production of bio-energy, as a substitute for fossil fuels.

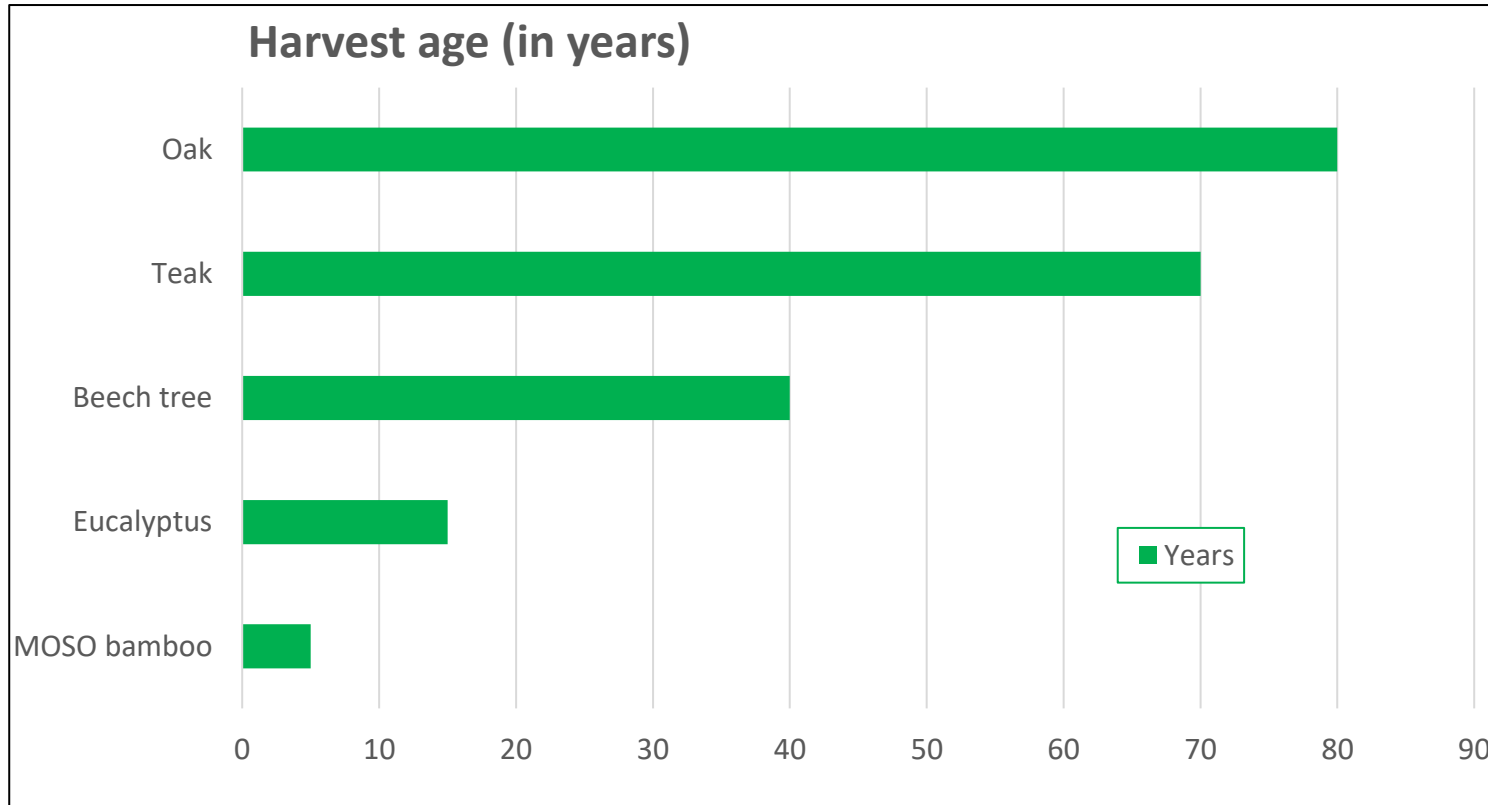
CO² footprint

- ✓ 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 their entire life cycle (cradle to grave).



Unprecedented growth speed

- ✓ Moso bamboo is the fastest growing plant in the world.
- ✓ Because of its rapid growth, giant bamboo is grown as an agricultural crop. The annual harvest of the adult 4-5 year old plant provides a stable income for the farmers and harvesting stimulates even faster plant reproduction.
- ✓ 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-based material which is in terms of hardness, stability, fire safety and durability, superior to the best tropical hardwood species.
- ✓ Thanks to an unique patented process (ThermoDensity® treatment) the density of the bamboo is increased by subjecting the bamboo fibres to very high pressure. Stability and durability are improved to a very high level by way of a special thermal treatment at 200°C.
- ✓ 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: $\pm 1,150 \text{ kg / m}^3$

Resistance to compression: - Brinell Hardness: $\geq 9.5 \text{ kg / mm}^2$

Fire behaviour: Class B-s1-d0

Sun reflection: 32

Flexural strength: 54.4 N / mm^2

CO² neutral

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



Bamboo N-finity

- ✓ The **BAMBOOH** N-finity bicycle stand is made of MOSO® bamboo; a high-quality bamboo species.
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- ✓ 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 behaviour: Class D-s2-d0
- Natural durability: Class 1 (EN350)
- Bending strength: 56.7 N / mm^2
- Contribution BREEAM NL: MAT 1, MAT 5 (FSC)



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Projects



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