



MOSO® Bamboo Products: a sustainable choice!

To determine the eco-impact of a product, every phase of the life cycle should be taken into account. MOSO® Bamboo Products offer clear sustainability advantages in each phase and are even proven CO₂ neutral over the full life cycle!

growth phase

- Made from the extremely rapidly renewable plant bamboo species "Moso", renowned for its CO₂ absorbing and O₂ producing capacity. Abundantly available in China (approx. 7 mil ha) and always sourced from sustainably managed forests and plantations. The Moso bamboo plant consists of multiple stems. As a result, several stems may be harvested each year without killing the mother plant.
- Optional: MOSO® Bamboo FSC®-certified (most important ecolabel for sustainable wood sourcing)



growth phase

production phase

- The MOSO® Bamboo Products are made in production facilities that are ISO 9001 and ISO 14001 (important quality standards) certified.
- Optional: use of eco-friendly adhesive with no added formaldehyde, complying with the strictest emissions norm: EO (EU requisite = E1)



production phase

end of life phase

- As a non-toxic, natural material, MOSO® Bamboo Products offer no restrictions at the end of life phase.
- If maintained well, MOSO® Bamboo Products may be reused in similar applications (upcycling). If this is not possible, MOSO® products may be safely used as input material for the cardboard industry (downcycling).
- If up- or downcycling is not possible, it is recommended to use the bamboo material as sustainable substitute for fossil fuels in a biomass energy plant for the production of green energy.



end of life phase

use phase

- Durable + Sustainable: because of the high hardness, density and stability, MOSO® Bamboo Products last very long (less replacement) even in tough circumstances. Proven Quality: all MOSO® Bamboo Flooring Products are CE marked and guaranteed up to 30 years. Healthy indoor climate: very low emissions of volatile organic compounds (VOCs).
- MOSO® floors have been rated A and A+ in France with respect to VOC emissions: the best classification possible!
- MOSO® Bamboo Forest is the first bamboo product to be certified under the very stringent Nordic Swan Ecolabelling scheme.
- Extra credits for sustainable building ecolabels, such as BREEAM and LEED (see backpage for details).



use phase



MOSO® Bamboo Forest



MOSO® Plain Pressed / Side Pressed



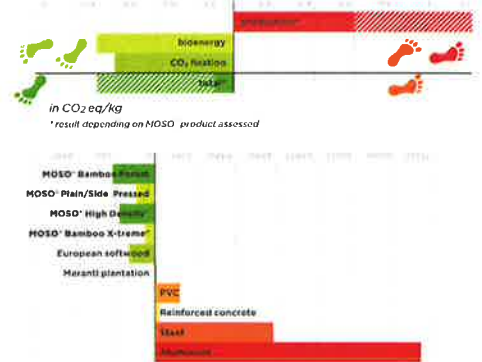
MOSO® High Density®



MOSO® Bamboo X-treme®

carbon footprint

MOSO® Bamboo Products: CO₂ neutral or better over full life cycle
MOSO® has commissioned Delft University of Technology to conduct an official LCA and carbon footprint study. The report (www.moso.eu/lca) concludes that all assessed MOSO® products (all solid bamboo flooring, decking, beams, panels and veneer) are CO₂ negative over the full life cycle ("cradle till grave"). In this result the high growing speed of Moso bamboo (see graph below) has not even been taken into account, and can be perceived as additional environmental benefit. The environmental impact of MOSO® products, excluding carbon sequestration effect, was also published in an official Environmental Product Declaration (EPD) following EN 15804 (www.moso.eu/epd).



carbon footprint over life cycle (kg CO₂ eq/m² material)

unsurpassed growing speed

Moso bamboo: the fastest growing plant in the world
Because of the fast growth, Moso bamboo is managed as an agricultural crop: the annual harvest of the 4-5 year old stems – compared to 80 years for tropical hardwood – provides a steady annual income to farmers and stimulates the bamboo plant to reproduce even faster. Therefore, in contrast to tropical hardwood, there is no deforestation taking place for production of MOSO® Bamboo Products.

