

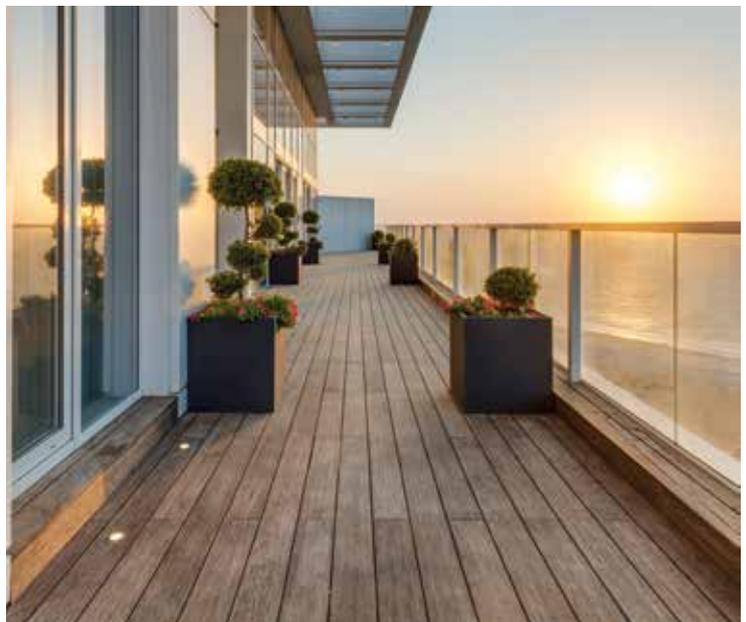


# green greener greenest

**KATANA™**  
by MOSO®

[www.moso-bamboo.com/durable](http://www.moso-bamboo.com/durable)

**Richelieu**





# KATANA™ by MOSO® : 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 CO<sub>2</sub> neutral over the full life cycle (see also right page)!

## growth phase

- ✓ Made from the extremely rapidly renewable giant bamboo species "Moso", renowned for its CO<sub>2</sub> absorbing and O<sub>2</sub> producing capacity.
- ✓ Abundantly available in China (approx. 7 mio 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.

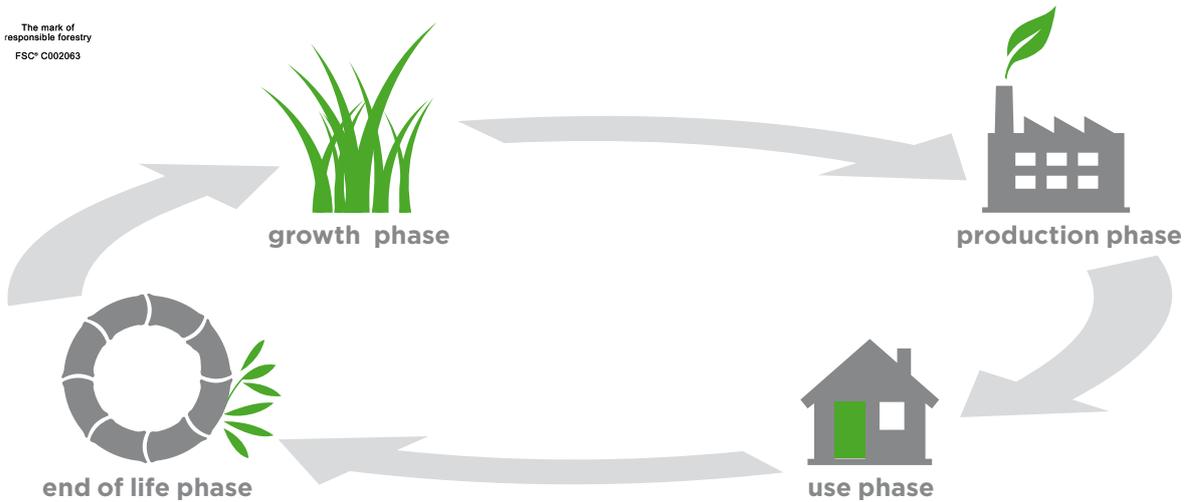


- ✓ **Optional:** MOSO® Bamboo FSC®-certified (most important ecolabel for sustainable wood sourcing).



## 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: E0 (EU requisite = E1).



## end of life phase

- ✓ As a non toxic, natural material, MOSO® Bamboo Products offer no restrictions in 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 chipboard 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.



## 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:** MOSO® Bamboo Outdoor Products are 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!
- ✓ **Extra credits for sustainable building eco-labels, such as BREEAM and LEED** (see backpage for details).

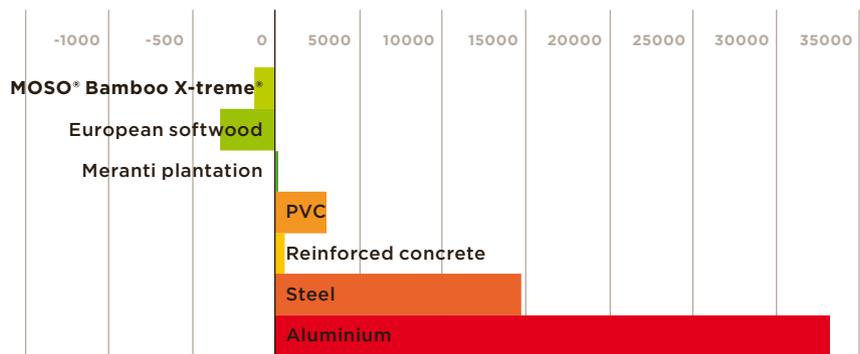
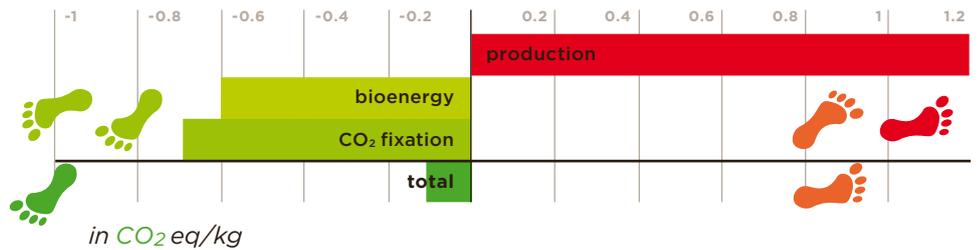




## carbon footprint

### KATANA™ by MOSO®: CO<sub>2</sub> 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](http://www.moso.eu/lca)) concludes that all assessed MOSO® products (all solid bamboo flooring, decking, beams, panels and veneer) are CO<sub>2</sub> 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](http://www.moso.eu/epd)).

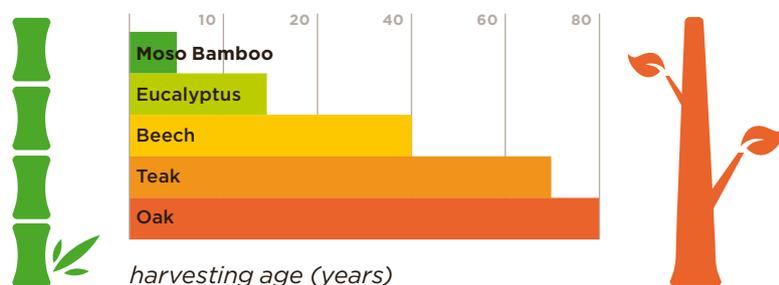


carbon footprint over life cycle (kg CO<sub>2</sub> eq/m<sup>3</sup> material)

## 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.





**MOSO® Flooring**  
Tel-Aviv University, Israel  
**LEED Platinum**



**MOSO® Beams, Panels & Veneer**  
IDOM Headquarters Bilbao, Spain  
**LEED Gold**



**MOSO® Outdoor**  
Venco Campus, The Netherlands  
**BREEAM Outstanding**



**MOSO® Unlimited Solutions**  
Campus Palmas Altas, Spain  
**LEED Platinum**

**MOSO®: World Leading in Bamboo**

There is no other company worldwide with an equally - and still expanding - broad assortment in high quality bamboo products. MOSO's head office, with the biggest bamboo warehouse in Europe, is located near Amsterdam. Furthermore, MOSO® has offices in Barcelona, Pennsauken (US), Milan, Cape Town and Hangzhou (China). MOSO® works with several partner companies and leading distributors worldwide to guarantee the availability of MOSO® products in each region.

Besides our exceptionally broad assortment in building solutions for indoors & outdoors, we are able to go even further. For industrial clients we develop unique customized solutions such as the 200.000m<sup>2</sup> ceiling panels at Madrid International airport.

Furthermore, MOSO® bamboo products have been installed in leading green building projects worldwide such as Tel-Aviv University (The Porter School of Environmental Studies - LEED Platinum) and IDOM head office in Bilbao (LEED Gold), the Venco Campus in Eersel (BREEAM Outstanding) and in the head office of NIBE, ranked as the greenest building in the Netherlands and Belgium following the Green building software tool GreenCalc (GreenCalc score of 1029).

The proof is the impressive line of references and clients such as Madrid Airport, BMW, AkzoNobel, Texaco, Guggenheim Museum, Rabobank, United Nations (FAO), Mercedes and CitizenM Hotels. For an overview of our references and clients please refer to our website: [www.moso-bamboo.com/references](http://www.moso-bamboo.com/references)



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