MOSO®
Bamboo X-treme®
certified and sustainable bamboo decking
bamboo: the fastest growing plant in the world
With MOSO® Bamboo X-treme® you can create a beautiful deck made of natural-grown bamboo, for your terrace, balcony, swimming pool area or other outdoor spaces. The truly ecological and durable alternative for increasingly scarce tropical hardwood offers you the touch, feel and look of a natural material. Bamboo X-treme® is available in a wide range of products including decking, cladding, fencing, and beams.
Enrich your garden, balcony or roof area with MOSO® Bamboo X-treme®, the natural, fast growing alternative to hardwood. Similar to hardwood, you can determine the look depending on the finish you choose.

For more information about these references please go to page 28.
MOSO® Bamboo X-treme® is engineered to last for a lifetime. Thanks to a special, unique, Thermo-Density® production process, it is very durable. The proof is the 3 million m² already installed in various different climates all over the world.

For more information about these references please go to page 28.

www.moso.eu/durable
x-tremely tough conditions: high traffic, around swimming pools, near coastlines and in extreme climates.
MOSO® Bamboo X-treme® is very stable, enabling the use of hidden fasteners (clips) to fix the boards. It is even possible to create special patterns. The superior stability has another major advantage: it allows a head side end-matched tongue/groove connection to create any length without big gaps.
MOSO® Bamboo X-treme® decking is available in different widths and depending on the finish and surface treatment you can define your own style of choice. Each board has a flat and a reeded side: just choose the one you like best! In addition to Bamboo X-treme® decking, we offer cladding and fencing boards. Bamboo X-treme® Beams can be used for custom made stairs, furniture and shutters.
Moso bamboo is one of the fastest growing plants on earth. The bamboo stems grow from an underground root system and after 5 years a stem can be harvested, while the others continue to grow. This means the bamboo can be used without destroying the forest. After harvesting, the Moso bamboo stems are split and the outer skin is removed. By modifying the bamboo strips with a special unique Thermo-Density® process, the dimensional stability of bamboo is improved by circa 50%. The heat-treatment at 200°C also ensures protection against superficial fungi and provides the highest durability class possible. After compressing the heat-treated bamboo strips, the material is stronger and harder than almost any other hardwood. That is why we call it: MOSO® Bamboo X-treme®.

**Fact Sheet MOSO® Bamboo X-treme®:**
- **Hard & Durable:** The only bamboo decking with class 1 durability (EN 350) tested following CEN/TS 15083-2 (simulated graveyard test). Exceptionally hard: Brinell >9.5 kg/mm².
- **Beautiful Appearance:** A beautiful, natural hardwood look. Choice of natural greying or keeping brown colour through maintenance.
- **CO₂ Neutral:** Official LCA and carbon footprint studies (ISO 14040/44) confirm that MOSO® Bamboo X-treme® is CO₂ neutral over the full life cycle.
- **High Stability:** Far more stable than bangkirai (yellow balau) and other tropical hardwoods — enabling tongue and groove end-matched installation (impossible with any other hardwood).
- **Easy to Install:** Very easy to install thanks to the fixed board length (1850 mm) and fixing with MOSO® fasteners.
- **Economical:** Simple and fast installation: Up to 30% savings in costs! Reduced waste of material because of tongue and groove end-matched installation.
- **Endless Resource:** Made from Moso bamboo, the fastest growing plant on earth. Each stem can be harvested after 5 years, and the plant continues to grow.
- **Fireproof:** Achieves flame spread index Class A following US standard ASTM E84 and fire resistance class Bfl-s1 following EN 13501-1 facilitating application in public projects.
- **Certified 100% Proven Durable - Stable - Sustainable:**

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**Moso Bamboo X-treme®**

- **Moso Bamboo X-treme®**: material more stable, harder and stronger than almost any other hardwood in the world!
In addition to decking, MOSO® provides Bamboo X-treme® sub frame joists, end profiles and maintenance products. With MOSO® fasteners, no screws are visible on the boards which contributes to the beautiful appearance. Make use of the complete range to ensure the quality of the terrace.

Appearance and Colour
Bamboo X-treme® is a natural product, which can vary in colour, grain and appearance. The colour will change over time depending on the maintenance schedule. The boards have a brown to dark brown colour when installed, which turns into a lighter caramel colour in the weeks after installation. Without further maintenance the colour will turn grey as a result of UV radiation (similar to most other wood species).

Maintenance and Cleaning
Under the influence of wind, rain, sun and snow the decking will weather. MOSO® recommends maintenance of the pre-oiled decking with Woca maintenance products. Unfinished decking must be treated with a suitable waterbased oil or saturator immediately after installation. Annual maintenance and cleaning should be performed using a cleaner and silicium carbid brush or broom (all maintenance products are available through MOSO®). Check out the complete maintenance and cleaning instruction at:

- www.moso.eu/x-treme-maintenance-woca
- www.moso.eu/x-treme-maintenance-sikkens

Around Swimming Pools
As with any wooden product used outdoors, there is always a risk of splinters arising, however splinters from MOSO® Bamboo X-treme® are normally smaller than (tropical) hardwood splinters. A regular cleaning, maintenance, and application of oil (more frequently around swimming pools) is recommended to keep the surface smooth.

Product Code Dimensions (mm)

- Board unfinished BO-DTHT170G 1850x137x20
- Board unfinished BO-DTHT175G 1850x137x20
- Board pre-oiled Woca BO-DTHT171G 1850x137x20
- Board pre-oiled Woca BO-DTHT1751G 1850x137x20
- Board unfinished BO-DTHT190G 1850x155x20
- Board unfinished BO-DTHT195G 1850x155x20
- Board pre-oiled Woca BO-DTHT191G 1850x155x20
- Board pre-oiled Woca BO-DTHT1951G 1850x155x20
- Sub frame joist BO-SB150 2440x70x40
- Sub frame joist BO-SB155 2440x60x40
- Fastener + screw CLIP-SCREW-BX031 27x22.5x10.8
- Fastener starter/end + screw CLIP-SCREW-BX301 27x17x31
- Endprofile BO-DTHT162 1850x137x20
- Sub frame joist BO-DTHT170G 1850x137x20

Also available with FSC® certification.

> www.moso.eu/x-treme-maintenance-woca
> www.moso.eu/x-treme-maintenance-sikkens
> www.moso.eu/x-treme
**x-tremely sustainable**

MOSO® Bamboo X-treme® offers clear sustainability advantages and is even proven to be CO₂ neutral over its full life cycle! The inclusion of Bamboo X-treme® contributes to a higher LEED and BREEAM certification score for green building projects. That’s one of the reasons why you can find the decking and other MOSO® products in many sustainable reference projects all over the world.

▶ [www.moso.eu/certifications](http://www.moso.eu/certifications)

**carbon footprint**

MOSO® Bamboo X-treme®: CO₂ neutral 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 CO₂ negative over the full life cycle (“cradle till grave”). In this result the high growth rate 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)).

**unsurpassed growing speed**

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 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. Thus, in contrast to tropical hardwood, there is no deforestation taking place for the production of MOSO® Bamboo X-treme®.

For more information about these references please go to page 28.
MOSO International was founded in the Netherlands in 1997. Since then, MOSO® has evolved to become the unchallenged European market leader in the development of innovative and sustainable bamboo products for interior and exterior applications.

There is no other company worldwide with an equally – and still expanding - broad assortment of 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, Milan, Cape Town, Milford (USA), Dubai and Hangzhou (China). MOSO® works with several partner companies and leading distributors worldwide to guarantee the availability of MOSO® products in each region.

Besides Outdoor products, MOSO® offers a very broad assortment of Bamboo Flooring, Panels, Veneer and Beams in various sizes, thicknesses, colours and textures. These products are used worldwide in various applications ranging from wall covering, ceilings, window frames, doors, stairs, furniture and kitchens, providing an ideal combination with the MOSO® Outdoor assortment.

Furthermore, because of its expertise, MOSO® is able to develop unique, customised bamboo solutions for industrial clients, meeting exceptionally stringent requirements. Through its experience, innovative attitude and world-wide network, MOSO® is recognised as the global A-brand in bamboo products. The proof is the impressive list of references and clients such as Madrid Airport, BMW, AkzoNobel, Texaco, Guggenheim Museum, Rabobank, United Nations (FAO), and CitizenM Hotels. For an overview of our references and clients please visit our website: www.moso.eu/references.
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