MOSO®
Bamboo X-treme®
certified and sustainable bamboo decking
bamboo: the fastest growing plant in the world
MOSO® Bamboo X-treme®

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.

X-tremely beautiful 6
X-tremely durable 10
X-tremely stable 14
X-tremely versatile 18
X-tremely unique 23
X-tremely complete 24
X-tremely sustainable 26
X-tremely proven 31
X-tremely sustainable 34
X-tremely proven 38
X-tremely sustainable 42
X-tremely proven 46
X-tremely sustainable 50
X-tremely proven 54
X-tremely sustainable 58
X-tremely proven 62
X-tremely sustainable 66
X-tremely proven 70
X-tremely sustainable 74
X-tremely proven 78
X-tremely sustainable 82
X-tremely proven 86
X-tremely sustainable 90
X-tremely proven 94
X-tremely sustainable 98
X-tremely proven 102
X-tremely sustainable 106
X-tremely proven 110
X-tremely sustainable 114
X-tremely proven 118
X-tremely sustainable 122
X-tremely proven 126
X-tremely sustainable 130
X-tremely proven 134
X-tremely sustainable 138
X-tremely proven 142
X-tremely sustainable 146
X-tremely proven 150

www.moso-bamboo.com/x-treme
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 a lifetime. Thanks to a special, unique, Thermo-Density® production process, it is very durable. The proof is the 4 million m² already installed in different climates all over the world.

www.moso-bamboo.com/durable

For more information about these references please go to page 28.
X-tremely tough conditions
High traffic, around swimming pools, near coastlines and in extreme climates.

www.moso-bamboo.com/durable
MOSO® Bamboo X-treme® is very stable, enabling the use of hidden MOSO® Fasteners to fix the boards. It is even possible to create special patterns. The superior stability has another major advantage: it allows an end-match system to create any length without big gaps.
X-tremely versatile

MOSO® Bamboo X-treme® decking is available in different widths and thicknesses, depending on the finish and surface treatment a unique look can be created. The boards are available with different surfaces: flat, grooved, curved, rough sanded: just choose the one you like the 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.

For more information about these references please go to page 28.
Moso bamboo is one of the fastest growing plants on earth. The bamboo stems grow from an underground root system and after 4-5 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 and inner skins are removed. By modifying the bamboo strands with a 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 strands, the material is stronger and harder than almost any other hardwood. That is why we call it: MOSO® Bamboo X-treme®.
MOSO® Bamboo X-treme® is a natural product, which can vary in colour, grain and appearance. 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 several weeks after installation. Without further maintenance the colour gets greyish relatively fast (similar to most other wood species).

Maintenance and cleaning

Under the influence of wind, rain, sun and snow the decking will weather. MOSO® recommends impregnating and maintaining the finished decking with Woca or Sikkens maintenance materials. It is recommended to finish the unfinished decking right after installation. Annual maintenance and cleaning should be performed using a cleaner and silicon carbide broom or machine disk (all maintenance products are available through MOSO®).

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. The boards must be installed in such a way that the surface water cannot flow directly into the pool.

Appearance and colour

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In addition to decking, MOSO® provides Bamboo X-treme® Sub frame joists, Fascia boards 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.

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MOSO® Bamboo X-treme® offers clear sustainable 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, BREEAM and Green Star certification score for green building projects. That’s one of the reasons why you can find MOSO® Bamboo X-treme® and other MOSO® products in many sustainable reference projects all over the world.

www.moso-bamboo.com/sustainability

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 4 to 5 year-old stems - compared to 60-80 years for tropical hardwoods - provides a steady annual income to farmers and stimulates the bamboo plant to reproduce even faster. Therefore, by default, no deforestation occurs with production of MOSO® Bamboo X-treme®, while large amounts of CO2 are captured in the bamboo forests and products (www.inbar.int/understanding-bamboos-climatechange-potential).

carbon storage in bamboo

biobased materials act as CO2 sinks

Through photosynthesis, plants absorb carbon dioxide (CO2) and convert it into glucose (building block for biomass) and oxygen. The CO2 is stored in the material for the lifetime of the product, and even longer if the product is recycled into new, durable products. Due to the fast growth – and related high yields – Moso bamboo locks far more CO2 in durable products compared to wood species. The locked amount of CO2 can be calculated rather simply by looking at the density of the material and taking into account the biobased content. For example, Bamboo X-treme® locks almost 1,700 kg CO2 per m³ of bamboo, which is the equivalent of the CO2 emissions of 14,250 km driven by a mid-range car.

carbon footprint

MOSO® Bamboo X-treme®: CO2 neutral over full life cycle

MOSO® has conducted an LCA and carbon footprint study together with Delft University of Technology (TU Delft) and INBAR. The report (www.moso-bamboo.com/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 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-bamboo.com/epd).

For more information about this reference please go to page 28.
MOSO International was founded in the Netherlands in 1997. Since then, MOSO® has evolved to become the unchallenged global 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 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, 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 MOSO® Bamboo Outdoor products, MOSO® offers a very broad assortment of Bamboo Flooring, Panels, Beams, Veneer and Flexbamboo in various sizes, thicknesses, colours and textures. These products are used worldwide in various applications ranging from wall covering, ceilings, window frames and doors to 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 worldwide 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-bamboo.com/references

since 2008 over 4 million m² installed in more than 60 countries
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