



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.

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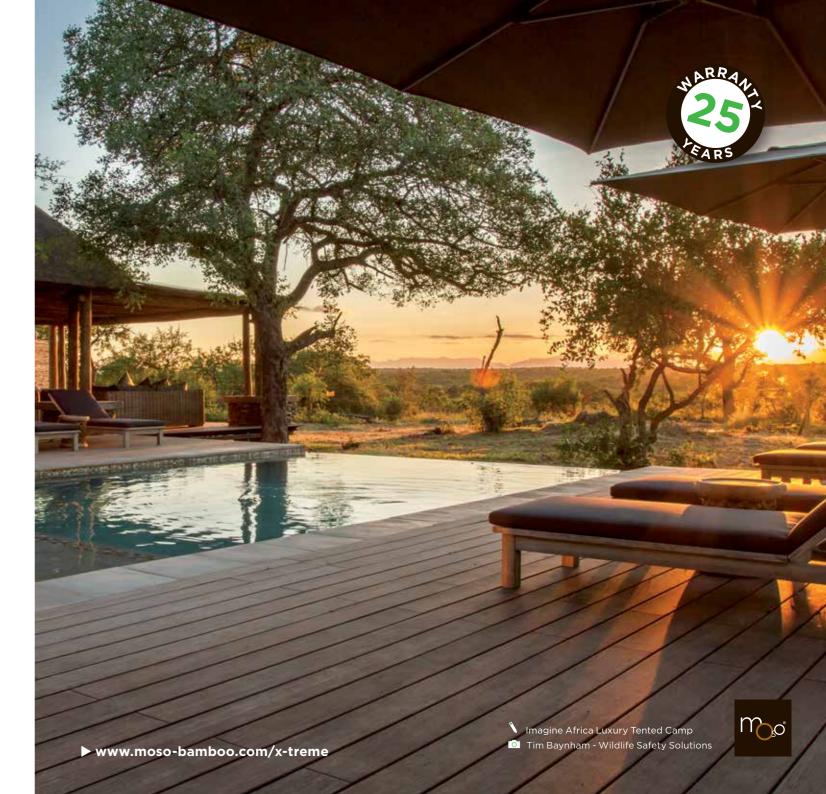


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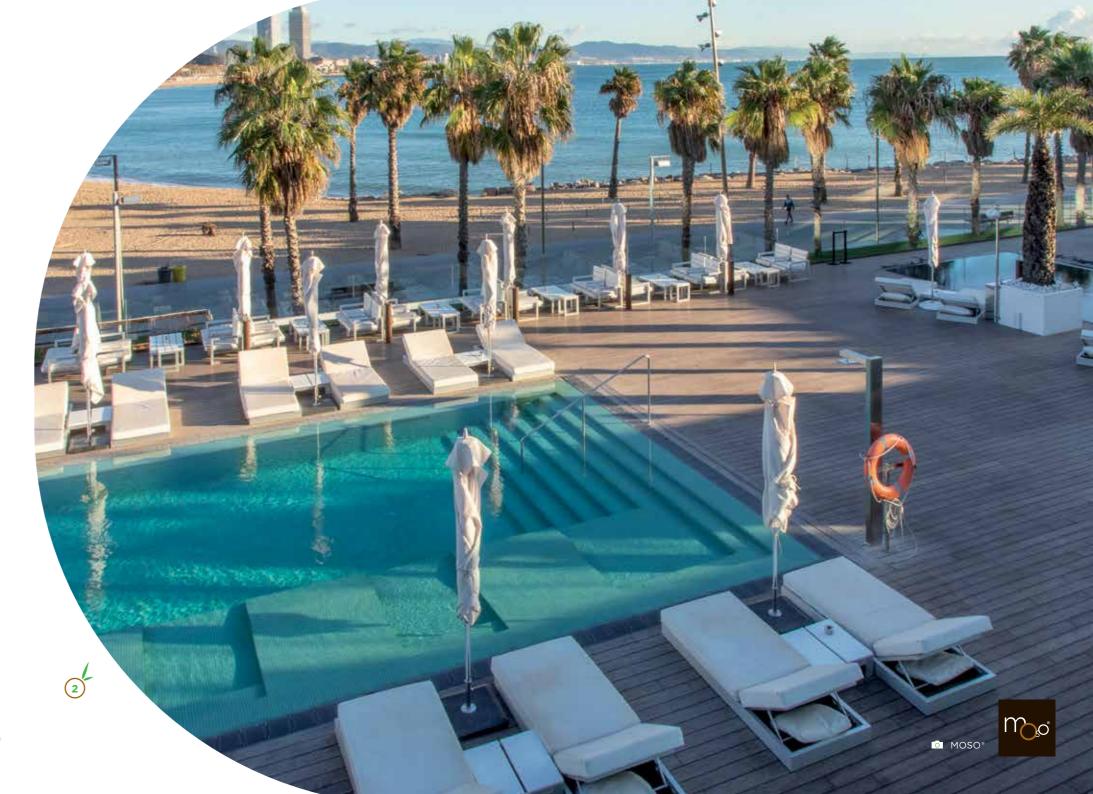
X-tremely beautiful

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.





X-tremely durable



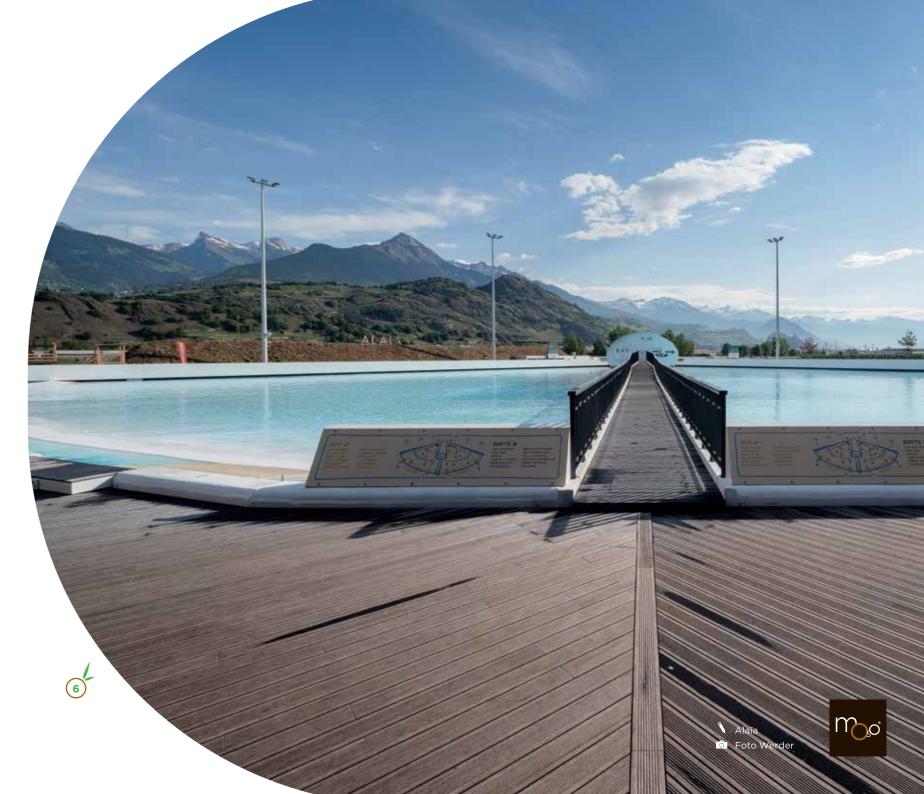
MOSO® Bamboo X-treme® is engineered to last a lifetime.

Thanks to a special, unique, Thermo-Density® production process, it is very durable. The proof is the 6 million m² already installed in different climates all over the world.

www.moso-bamboo.com/durable







mo

X-tremely

tough conditions

High traffic, around swimming pools, near coastlines and in extreme climates.





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



X-tremely stable

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, including the luxurious chevron installation. 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, brushed, non-slip: 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.









X-tremely well made



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®.

ready to harvest after 4-5 years



split the Moso bamboo stems remove the skins and crush the strips into strands

modifying the bamboo strands with a heat-treatment at 200°C



compressing the strands into Thermo-Density® material



creating the final profile and surface



MOSO® Bamboo X-treme®: material more stable, harder and stronger than almost any other hardwood in the world!

X-tremely unique



hard & durable

Biological durability Class 1 (EN 350 / CEN/TS 15083-2), simulated graveyard test / Class 1 (EN 350 / CEN/TS 15083-1). Exceptionally hard: Brinell ± 9.5 kg/mm².



high stability

Far more stable than bangkirai (vellow balau) and other tropical hardwoods - enabling an endmatched connection (impossible with any other hardwood).



easy to install

Very easy to install and uninstall thanks to the fixed board length (1850 mm) and fixing with MOSO® Fasteners. Decking with the curved surface can be installed without a slope. Thanks to this curved surface, fast drainage from the boards is guaranteed.



economical

Simple and fast installation: up to 30% savings in costs! Reduced waste of material during installation because of end-match system.



beautiful appearance

look. Choice between natural greying or retaining the brown colour with an exterior finish.





CO₂ neutral

Official LCA and carbon footprint studies (EN 15804) confirm that MOSO® Bamboo X-treme® is CO2 neutral during the product lifespan*.

*) This includes the CO₂ (biogenic carbon - EN 16449) stored in the product.



endless resource

Made from bamboo, the fastest growing plant on earth. Each stem can be harvested after 4-5 years, and the plant continues to grow.



fire resistant

Achieves flame spread index Class A following US standard ASTM E84 and fire resistance class Bfl-s1 following EN 13501-1, allowing application in public projects.





X-tremely complete



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









X-tremely easy

check out the Bamboo X-treme® installation and maintenance movie at:

www.moso-bamboo.com/youtube/x-treme

appearance and colour

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).



Board Standard Groove / Flat

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®).







of weathering

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.

(reversible)

Board V-Groove / Brushed





*) Ends of the boards are protected with Sikkens Kodrin WV 456 sealer.

Product / Surface	Oiled Woca*	Sikkens Cetol*	Unfinished	Dimensions (mm)
Board Standard Groove/Flat	BO-DTHT171G	BO-DTHT171G-01	BO-DTHT170G	1850x137x20
Board Standard Groove/Flat	BO-DTHT371	BO-DTHT371-01	BO-DTHT370	1850x137x30
Board 2 Non-slip lines	BO-DTHT171G-AS2	BO-DTHT171G-01-AS2	BO-DTHT170G-AS2	1850x137x20
Board Standard Groove/Flat	BO-DTHT181G	BO-DTHT181G-01	BO-DTHT180G	1850x137x18
Board Standard Groove/Flat	BO-DTHT191G	BO-DTHT191G-01	BO-DTHT190G	1850x155x20
Board Curved	BO-DTHT191G-C	BO-DTHT191G-C-01	BO-DTHT190G-C	1850x155x20
Board V-groove/Rough Sanded	BO-DTHT191GV-R	BO-DTHT191GV-R-01	BO-DTHT190GV-R	1850x155x20
Board Standard Groove/Flat	BO-DTHT211G	BO-DTHT211G-01	BO-DTHT210G	1850x178x20
Board V-Groove/Brushed	BO-DTHT231GV-R	BO-DTHT231GV-R-01	BO-DTHT230GV-R	1850×208×20
Board Chevron Flat	BO-DTHT163G-CHV	BO-DTHT163G-CHV-01		566(703)x137x20
Sub frame joist			BO-SB155	2440x60x40
Fascia board Standard Groove/Flat	BO-DTHT171G1	BO-DTHT171G1-01	BO-DTHT170G1	1850x137x20
Edge profile, 2 edge grooves	BO-DTHTBN171G	BO-DTHTBN171G-01		1850×65×30/20

Product	Code	
Fastener Asymmetric with screw (20 mm)	CLIP-SCREW-BX08	
Fastener Asymmetric with screw (18 mm)	CLIP-SCREW-BX09	
Fastener Start/End Top with screw (20 mm)	CLIP-SCREW-BX802	
Chevron installation tool	CHEVRON-TOOL01	











X-tremely sustainable



MOSO® Bamboo X-treme® offers clear sustainable advantages and is even proven to be CO₂ neutral during the product lifespan! The inclusion of Bamboo X-treme® contributes to a higher LEED, BREEAM, Green Star, HQE and DGNB 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.

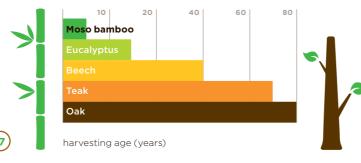
www.moso-bamboo.com/sustainability



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 hardwood! 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/understandingbamboos-climatechange-potential).



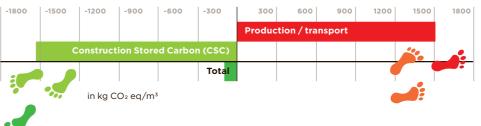
For more information about this reference please go to page 28.

carbon footprint

MOSO® Bamboo X-treme®: CO2 neutral during the product lifespan®

MOSO® has conducted several LCA studies, including carbon footprint studies together with Delft University of Technology (TU Delft) and NIBE (LCA experts). The 2015 LCA report, available at www.moso-bamboo.com/lca, was the first of its kind and resulted in many new findings about the carbon footprint of bamboo products. The environmental impact of MOSO® Bamboo Products, excluding the carbon sequestration effect, has also been published in 2016 and updated in 2022 in an official Environmental Product Declaration (EPD) following EN 15804 (www.moso-bamboo.com/epd).

*) This includes the CO₂ (biogenic carbon - EN 16449) stored in the product



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 1.660 kg CO₂ per m³ of bamboo, which is the equivalent of the CO₂ emissions of 14.000 km driven by a mid-range car.



X-treme® references



MOSO® Bamboo **Outdoor** Selvikbukta, Norway

Nordre Jarlsberg Brygge

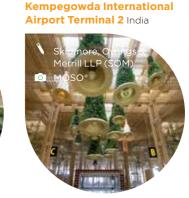


Pharos

The Netherlands



Hotel Jakarta Amsterdam





Residential building Braunhubergasse 28 Vienna, Austria



Hard Rock Hotel Los Cabos Los Cabos, Mexico



MOSO Sheryl Leysner Bamboo Panels, Veneer & Beams

Lexus Lounge Belgium



Schiphol Airport The Netherlands



Private Residence



Private Residences De Krijgsman Muiden, the Netherlands



Madrid International Airport



CityLife Shopping District



MOSO® Bamboo **Unlimited** Be inspired by hundreds of bamboo applications and countless projects made with a wide range of MOSO® bamboo products:

www.moso-bamboo.com/ references





Oxygen event complex

D.S Blay Architectu www.moso-bamboo.com/moso-barcelona

Renovation City Centre Leverkusen



MOSO® Mastering Bamboo

Endless possibilities with MOSO® Bamboo Products:

MOSO® develops and creates bamboo products for interior and exterior applications that meet the highest technical requirements and quality standards, enhance the beauty of applications and are made from the sustainable, renewable resource: Moso bamboo.

With 25 years' experience in the relatively young bamboo industry, MOSO® is recognised as the **global A-brand** in bamboo because of its focus on product **quality**, **innovation** and **sustainability**. With an international team and partners in more than 60 countries, MOSO® is continuously looking for new applications and solutions that can be made with the fastest growing plant of the world. The proof is the impressive list of reference projects showcasing **endless possibilities** with MOSO® Bamboo Products.

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**









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