

MOSO[®]

Bamboo X-treme[®]

sustainable
and certified
bamboo
decking

The logo for MOSO, featuring the lowercase letters 'm' and 'o' in white, with a yellow circle around the 'o', and 'so' in white below it, all on a dark brown square background.

moso[®]



**bamboo:
the fastest
growing plant
in the world**

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



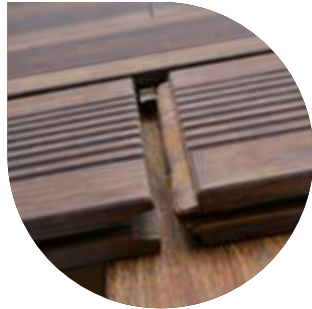
x-tremely stable 14



x-tremely versatile 18



x-tremely unique 23



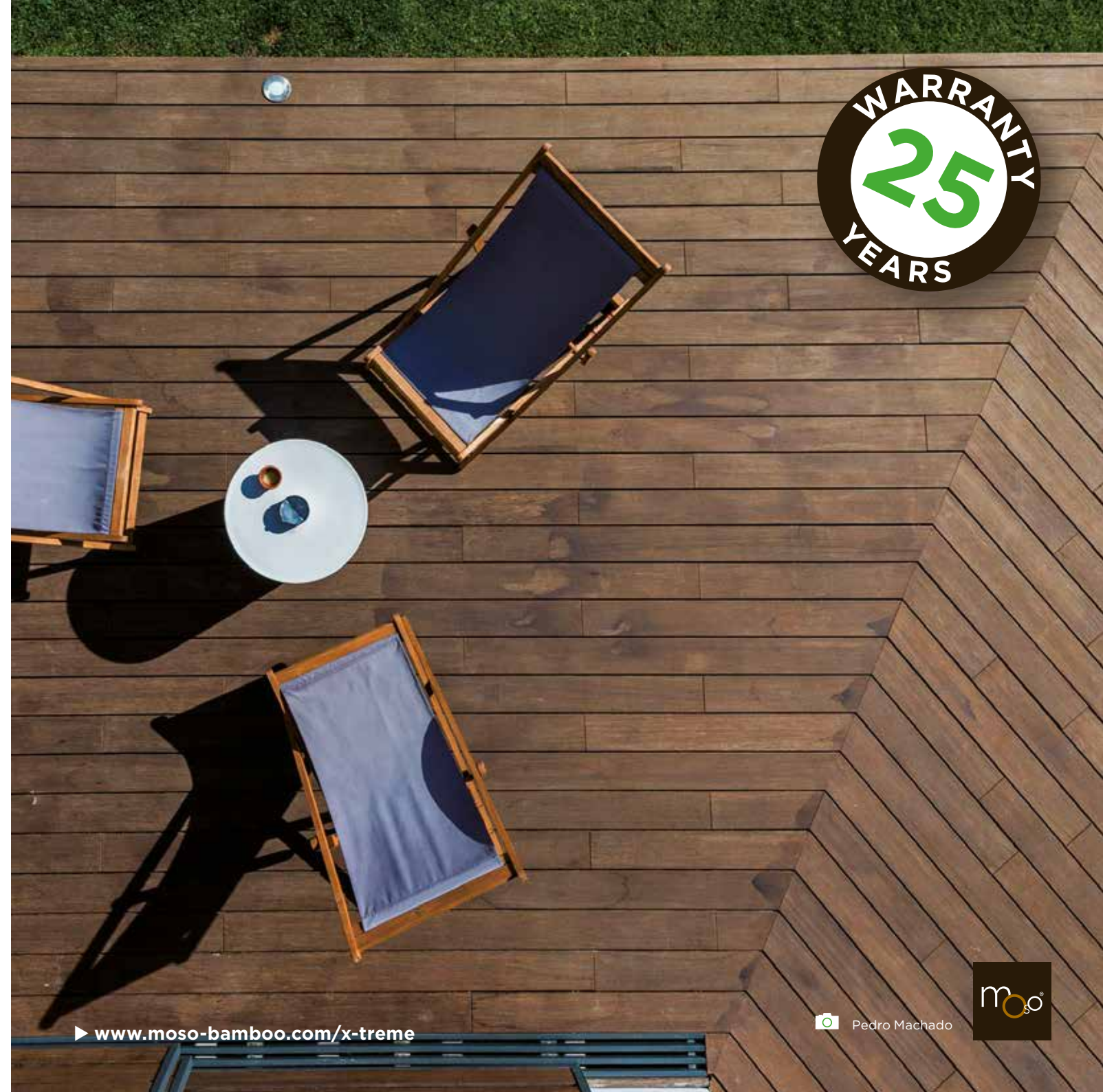
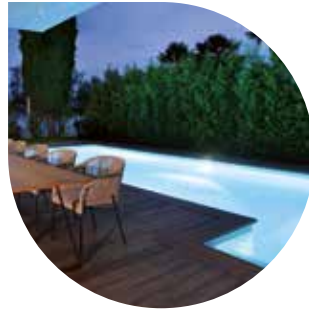
x-tremely complete 24



x-tremely sustainable 26



x-tremely proven 31



x-tremely 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.



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



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Lior Teitler

Ricardo Bofill
MOSO®





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

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Fraser Decks & Patio Covers
Reily Imagery



Haladesign Landschaftsplanung
Qin (Andy Andresen)



x-tremely durable

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 3.5 million m² already installed in various different climates all over the world.



► www.moso-bamboo.com/durable



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

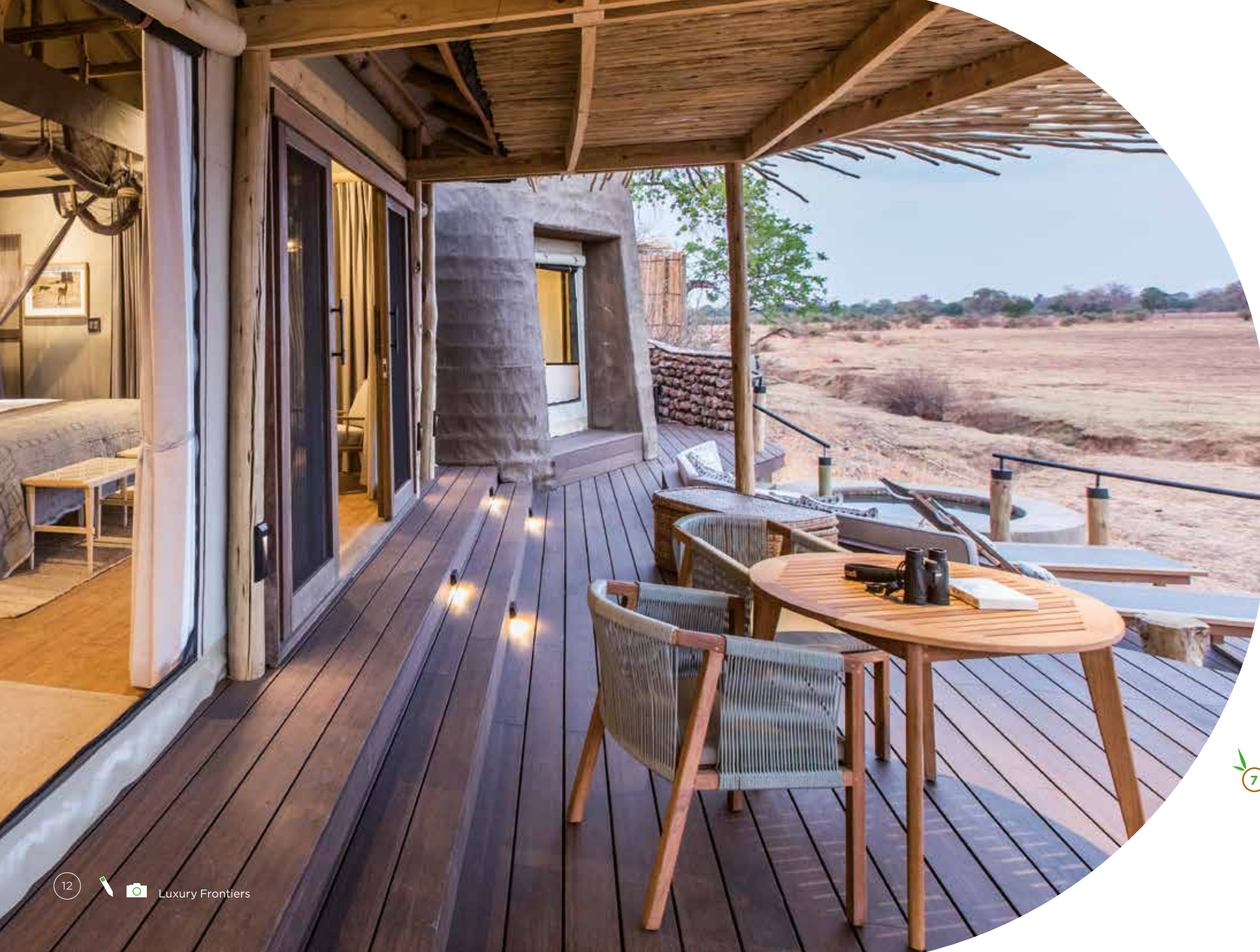


Lázaro Rosa-Violán
Hotel Barcelona 1882



**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 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.



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



Yves Verfaillie
Lior Teitler

moso



x-tremely versatile

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.



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Wouter Bink
Peter Brugmans Fotografie



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



David Ducastel - Philéas Fotos



Stéphane Malka





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



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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 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 strands 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 strands, the material is stronger and harder than almost any other hardwood. That is why we call it: MOSO® Bamboo X-treme®.

harvesting after 5 years



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



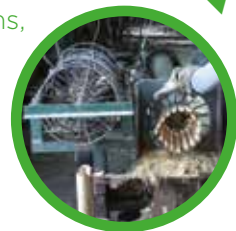
compressing the strands into Thermo-Density® material



finally creating the final profile and surface



split the Moso bamboo stems, remove the outer skin and crush the strips into strands

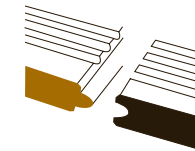


MOSO® Bamboo X-treme®: material more stable, harder and stronger than almost any other hardwood in the world!

x-tremely unique



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.



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.



beautiful appearance
A beautiful, natural hardwood look. Choice of natural greying or keeping brown colour through maintenance.



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.



CO2 neutral
Official LCA and carbon footprint studies (ISO 14040/44) confirm that Bamboo X-treme® is CO2 neutral over the full life cycle.



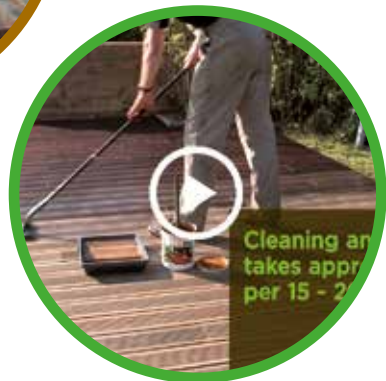
fireproof
Achieves flame spread index Class A following US standard ASTM E84 and fire resistance class Bfl-s1 following EN 13501-1 facilitating application in public projects.



x-tremely complete



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.



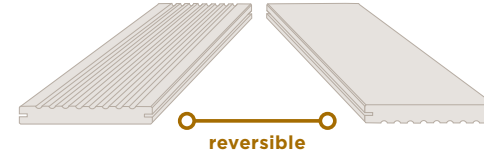
x-tremely easy

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

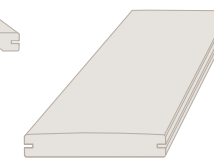
► www.moso-bamboo.com/x-treme



Board reeded and flat



board curved



*) Check availability

Product	Code	Dimensions (mm)
Board unfinished	BO-DTHT170G*	1850x137x20
Board pre-oiled Woca	BO-DTHT171G	1850x137x20
Board pre-oiled Woca	BO-DTHT181G	1850x137x18
Board unfinished	BO-DTHT190G*	1850x155x20
Board pre-oiled Woca	BO-DTHT191G	1850x155x20
Curved board pre-oiled Woca	BO-DTHT191G-C	1850x155x20
Board unfinished	BO-DTHT210G*	1850x178x20
Board pre-oiled Woca	BO-DTHT211G	1850x178x20
Sub frame joist	BO-SB150	2440x70x40
Sub frame joist	BO-SB155	2440x60x40
Fastener Asymmetric + screw (20 mm)	CLIP-SCREW-BX08	27x22.5x10.8
Fastener + screw (20 mm)	CLIP-SCREW-BX031	27x22.5x10.8
Fastener starter/end + screw (20 mm)	CLIP-SCREW-BX301	27x17x31
Fastener Asymmetric + screw (18 mm)	CLIP-SCREW-BX09	27x22.5x10.8
Fastener + screw (18 mm)	CLIP-SCREW-BX041	27x22.5x10.8
Endprofile	BO-DTHT162	1850x137x20

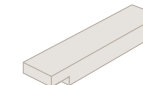
Fastener Asymmetric



Fastener



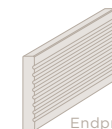
Sub frame joist



Also available with FSC® certification.



Endprofile



The mark of responsible forestry
FSC® C002063



after 12-18 months weathering

after brushing & cleaning

after treatment with decking oil

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-bamboo.com/x-treme

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.

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-bamboo.com/certifications



breem
★★★★★
excellent

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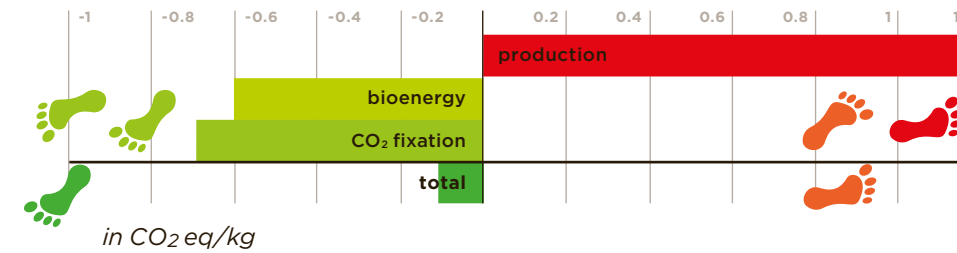
For more information about these references please go to page 28.



carbon footprint

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

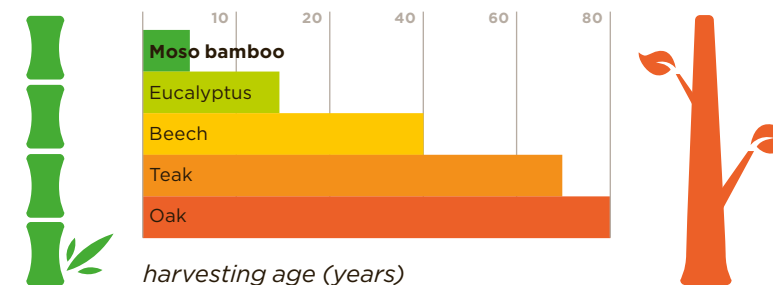
MOSO® has commissioned Delft University of Technology to conduct an official LCA and carbon footprint study. The report (www.moso.eu/lca) concludes that all assessed MOSO® products (all solid bamboo flooring, decking, beams, panels and veneer) are CO₂ negative over the full life cycle ("cradle till grave"). 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).



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®.



x-tremely nice references

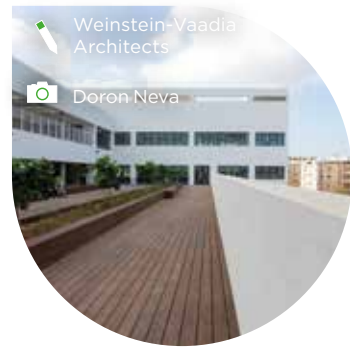
- 1 Apartment Dror Golan
▶ www.moso.eu/dror-golan
- 2 Hotel W Barcelona
▶ www.moso.eu/hotel-w
- 3 Private Residence Solana Beach
▶ www.moso.eu/solana
- 4 Wellness Residence Alpenrose
▶ www.moso.eu/alpenrose
- 5 Shuguang children's gardens
▶ www.moso.eu/shuguang
- 6 Hotel 1882 Barcelona
▶ www.moso.eu/hotel-1882
- 7 Lodge Puku Ridge
▶ www.moso.eu/puku
- 8 Beach promenade Tel-Aviv
▶ www.moso.eu/promenade
- 9 Private Residence Buenos Aires
▶ www.moso.eu/buenos-aires
- 10 Hotel The Fourth - Restaurant
▶ www.moso.eu/thefourth
- 11 Hotel Villa Elena
▶ www.moso.eu/hotel-elena
- 12 Garden house
▶ www.moso.eu/garden-house
- 13 Oxygen event complex
▶ www.moso.eu/oxygen
- 14 MOSO office Barcelona
▶ www.moso.eu/moso-barcelona
- 15 Renovation City Centre Leverkusen
▶ www.moso.eu/leverkusen
- 16 San José de la Sierra Building
▶ www.moso.eu/san-jose
- 17 Niverplast rooftop terrace
▶ www.moso.eu/niverplast
- 18 PSES University
▶ www.moso.eu/pses
- 19 Venco Campus
▶ www.moso.eu/venco
- 20 The Gas Museum
▶ www.moso.eu/gas

Restaurant Bioburger Oxygen
Paris, France



Stéphane Malka
David Ducastel
Phileas Fotos

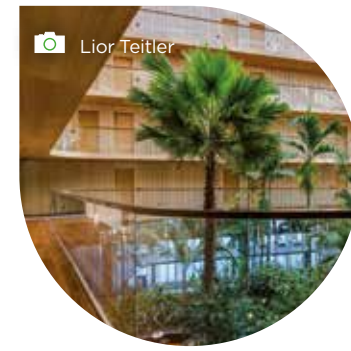
High School Shevach Mofet
Tel Aviv, Israel



Weinstein-Vaadia Architects
Doron Neva



Hotel Jakarta Amsterdam
The Netherlands



Lior Teitler

BMW Solar Carport
South Africa



BMW

Guggenheim Museum
Spain



Aitor Ortiz

Villa in Wellington
Wellington, New Zealand



WireDog Architecture

Office Weft Print Hellas SA
Athens, Greece



Weft Print Hellas SA

Head Office Südwestmetall
Germany



Parkett Neubert



Lexus Lounge
Belgium



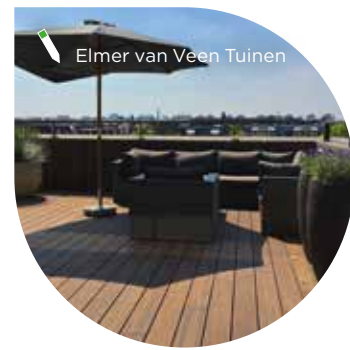
Lior Teitler

Schiphol Airport
The Netherlands



Thijs Wolzak

Roof Garden
Amsterdam, The Netherlands



Elmer van Veen Tuinen

Hotel Dona Filipa
Algarve, Portugal



Pedro Machado

Floating house 'Schoonschip'
Amsterdam, The Netherlands



Parking place
Haugesund, Norway



OPUS Arkitekter AS
Gunnvor Saltvik

Madrid International Airport
Spain



CityLife Shopping District
Italy



AndreVisual



MOSO® world leading in bamboo
www.moso-bamboo.com/references



about MOSO®

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.

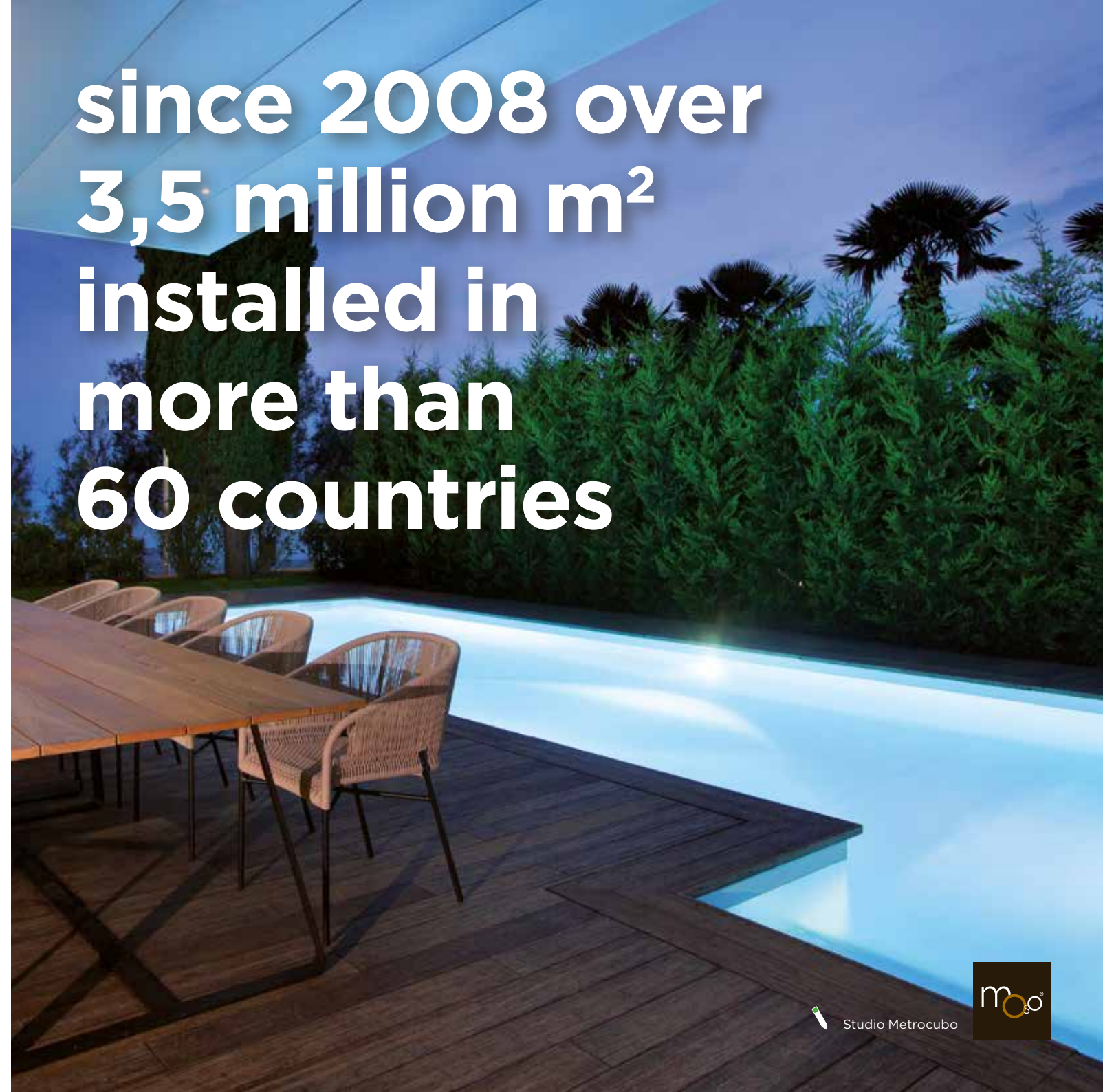
There is no other company worldwide with an equally – and still expanding – **broad assortment** in **high quality** bamboo products. MOSO's head office, with the **biggest bamboo warehouse** in Europe, is located near Amsterdam. Furthermore, MOSO® has offices in Barcelona, Milan, Cape Town, Milford (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 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, 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-bamboo.com/references



since 2008 over
3,5 million m²
installed in
more than
60 countries



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moso®

bamboo
x-treme

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