

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 **deck, 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, deck tiles, 1x4 T&G, soffit, trim & fascia boards, siding, fencing** and **2x beams**.

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X-tremely stable 14



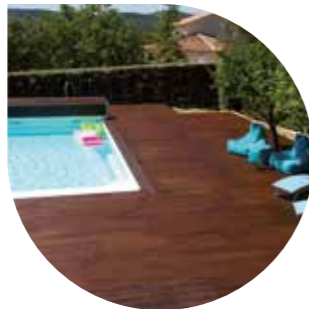
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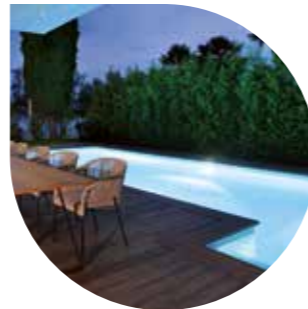
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WARRANTY
25
YEARS



► www.moso-bamboo.com/x-treme

D.S Blay Architecture
Shai Gil

moso

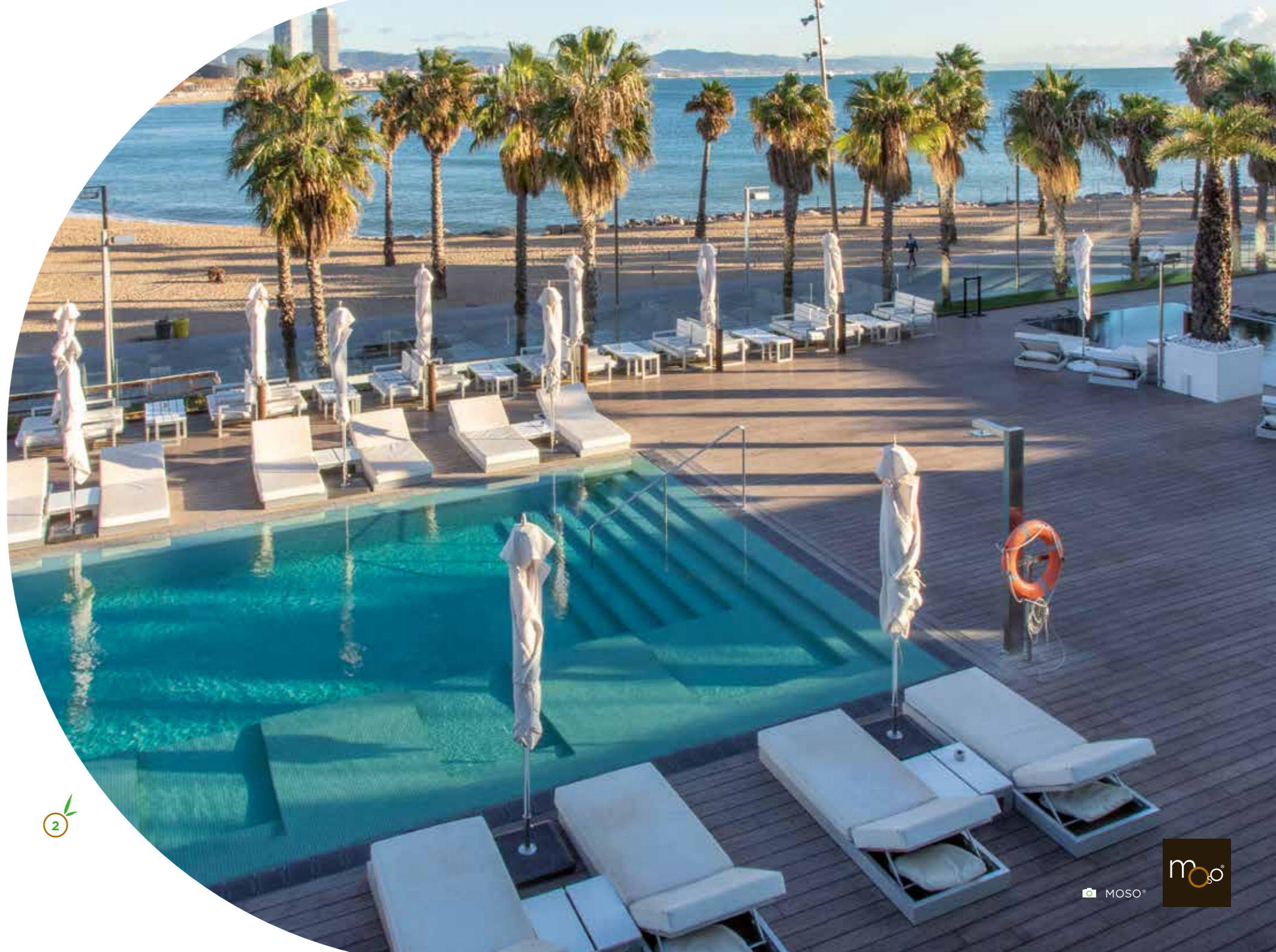
X-tremely beautiful

Enrich your garden, porch 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 size and surface you choose.



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

6 Dror Golan
Lior Teitler



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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 a lifetime. Thanks to a special, unique, Thermo-Density® production process, it is very durable. The proof is the 45 million sqft already installed in different climates all over the world.

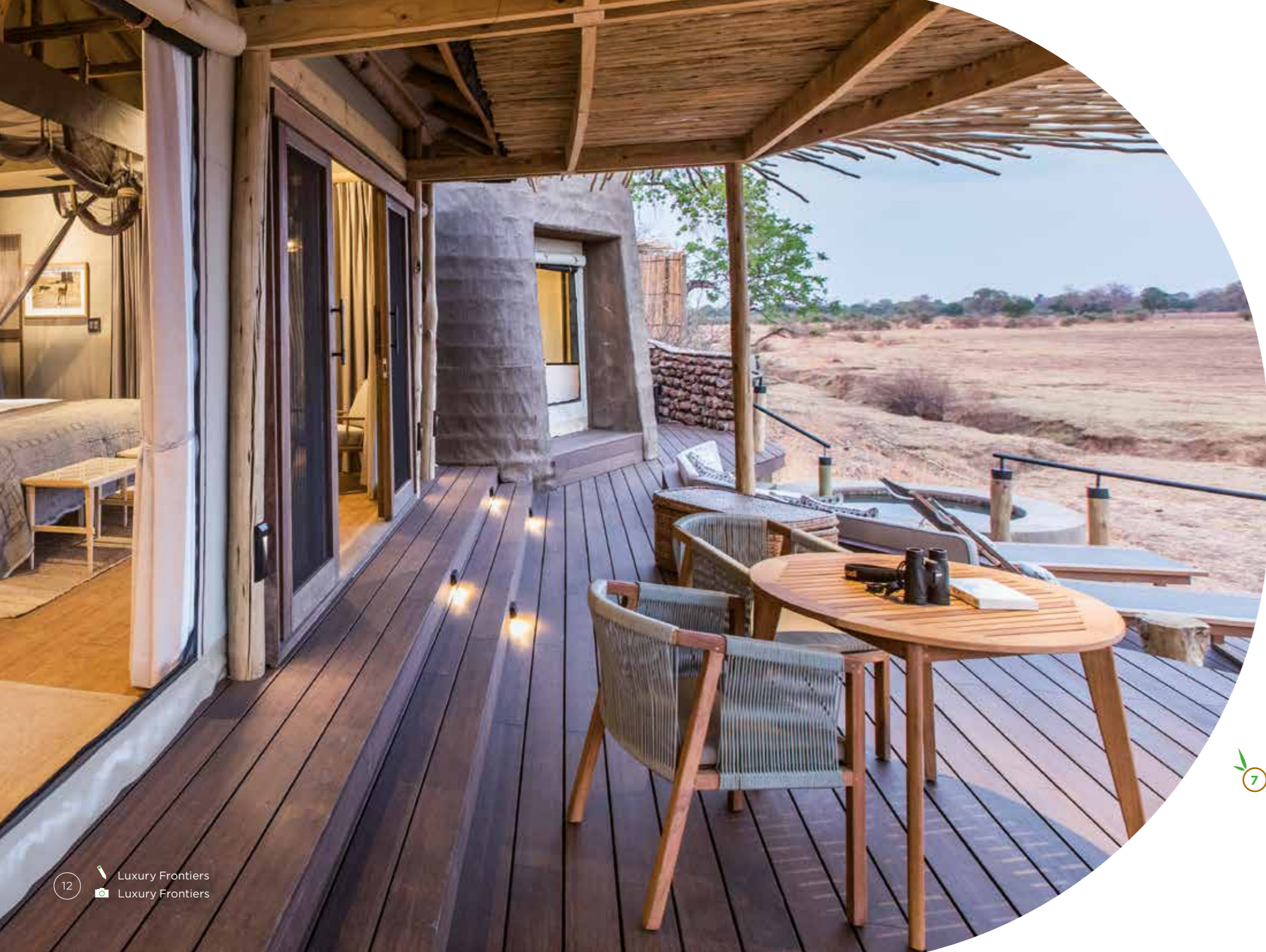
► www.moso-bamboo.com/durable



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.



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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. The superior stability has another major advantage: it allows an end-match system to create any length without big gaps.

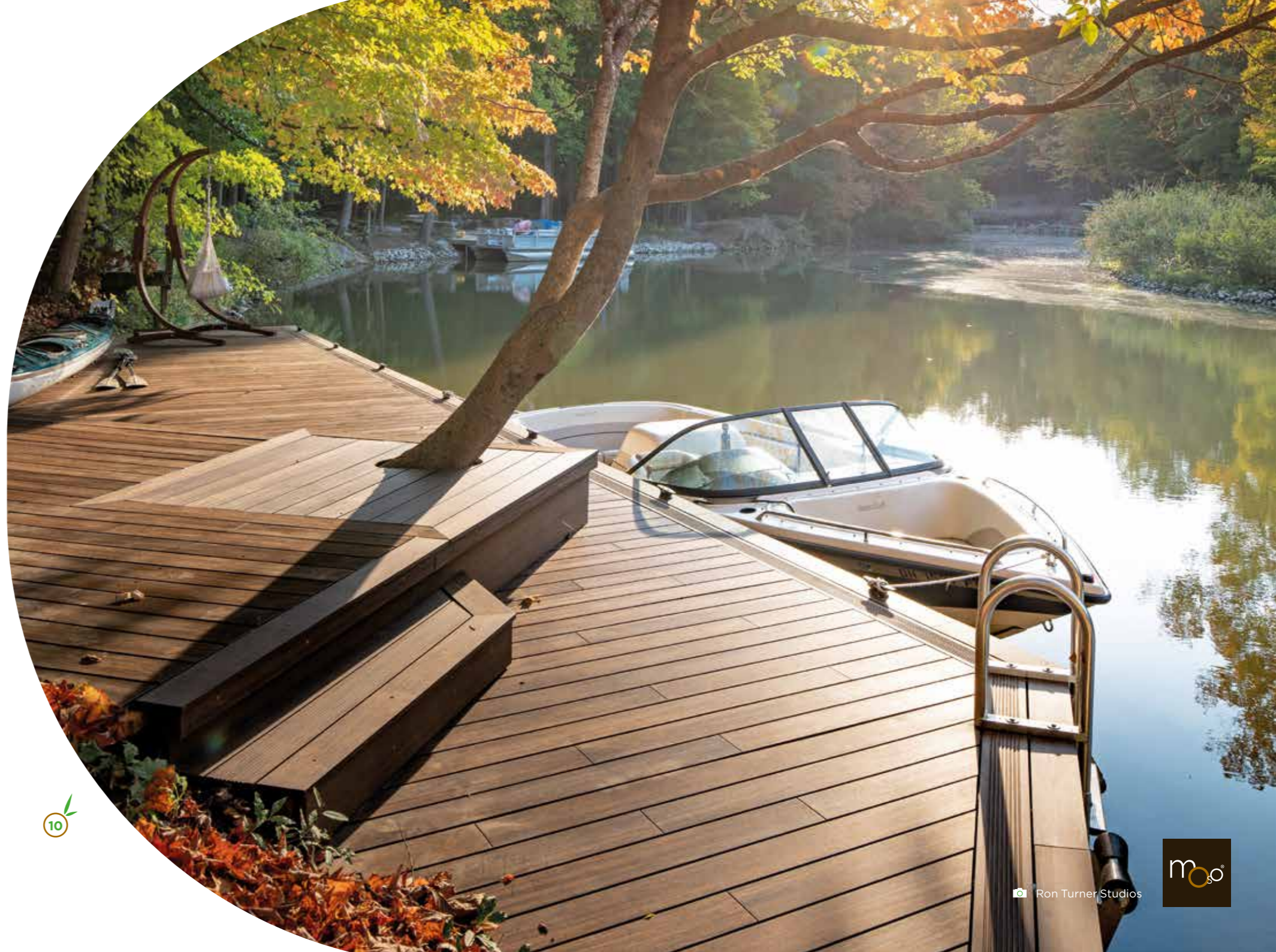


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Tarik Hart



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



Ron Turner Studios

m_oo



X-tremely versatile

MOSO® Bamboo X-treme® decking is available in different widths and thicknesses, depending on the surface treatment a unique look can be created. The boards are available with different surfaces: smooth and grooved: just choose the one you like the best! In addition to Bamboo X-treme® Decking, we offer deck tiles, 1x4 T&G, soffit, trim & fascia boards, siding, fencing and 2x beams.



18 Wouter Bink
Peter Brugmans Fotografie



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



SPEE Architects
Awood
Ossip van Duivenbode





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MOSO®

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Wetz
MOSO®



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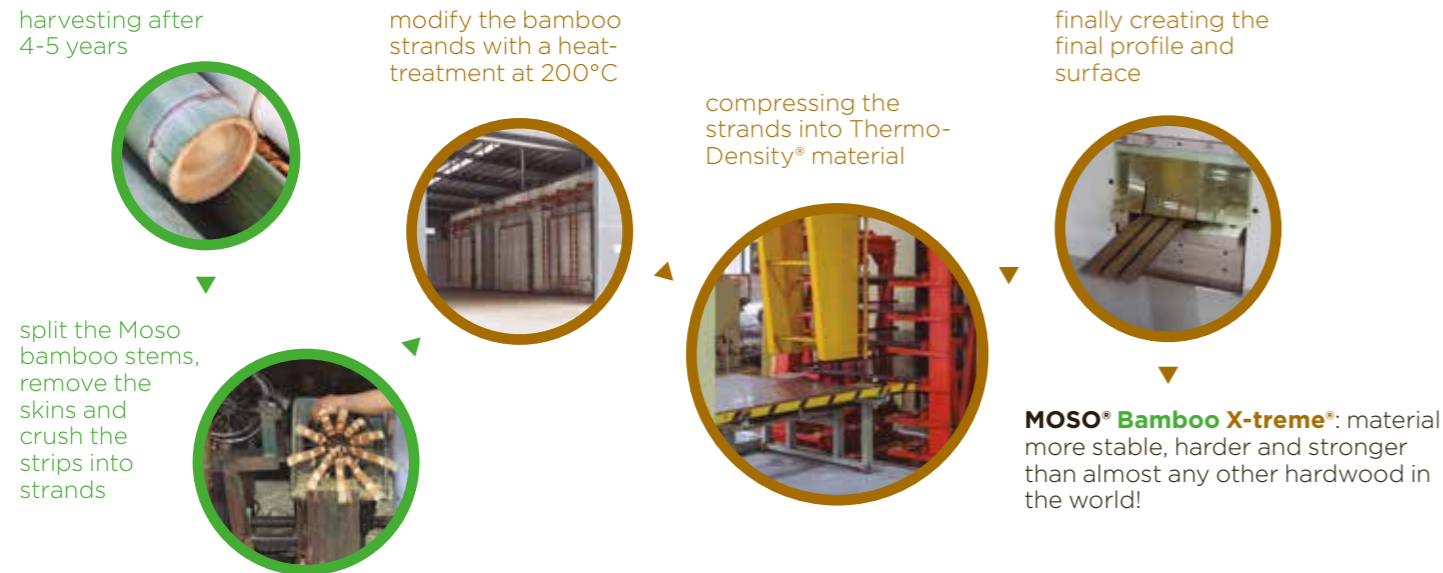
Stéphane Malka
David Ducastel - Philéas Fotos

MOSO®

X-tremely well made



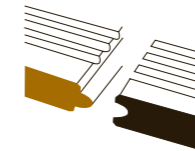
Moso bamboo is one of the fastest growing plants on earth. The bamboo stems grow from an underground root system and after 4-5 years a stem can be harvested, while the others continue to grow. This means the bamboo can be used without destroying the forest. After harvesting, the Moso bamboo stems are 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®.



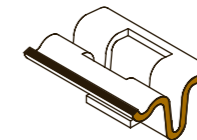
X-tremely unique



hard & durable
Bamboo decking with Durability Class 1 (EN 350) tested following CEN/TS 15083-2 (simulated graveyard test). Exceptionally hard: Brinell >9.5 kg/mm².



high stability
Far more stable than most tropical hardwoods - enabling end-matched (tongue and groove) installation (impossible with any other hardwood).



easy to install
Very easy to install and uninstall thanks to the fixed board length (1x6 ft / 1830 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 color through maintenance.



endless resource
Made from Moso bamboo, the fastest growing plant on earth. Each stem can be harvested after 4-5 years, and the plant continues to grow. Consisting of > 90% natural bamboo.



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



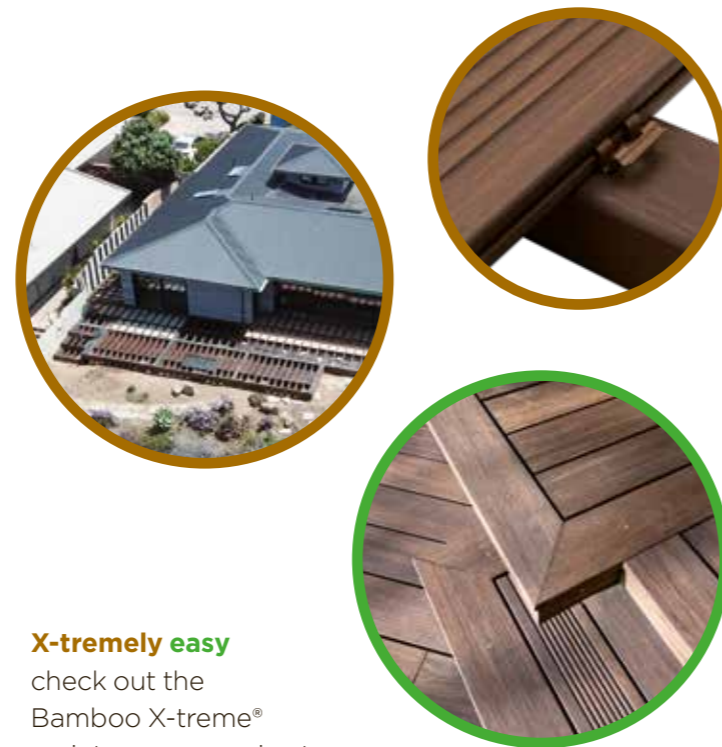
fire resistant
Achieves flame spread index Class A following US standard ASTM E84 and fire resistance class Bfl-s1 following EN 13501-1 facilitating application in public projects.



X-tremely easy to install



MOSO® Bamboo X-treme®'s 6' end-matched decking system brings an ease of installation unlike any other to your project. With straight, flat and true boards contractors can save up to 30% on installation when compared to any tropical hardwood. With MOSO® Fasteners, no screws are visible on the grooved boards which contributes to the beautiful appearance.



X-tremely easy
check out the
Bamboo X-treme®
maintenance movie at:
▶ www.moso-bamboo.com/
[youtube/minutes](https://www.youtube.com/watch?v=minutes)

appearance and color

MOSO® Bamboo X-treme® is a natural product, which can vary in color, grain and appearance. Color will change over time depending on the maintenance schedule. The boards have a brown to dark brown color when installed, which turns into a lighter caramel color several weeks after installation. Without further maintenance the color gets greyish relatively fast (similar to most other wood species).



new, non-weathered decking

after 3 months of weathering

after 36 months of weathering

maintenance and cleaning

Under the influence of wind, rain, sun and snow the decking will weather. Unfinished deck should be treated with Messmer's UV Plus right after installation. MOSO® recommends to clean the deck with the Messmer Deck Cleaner and Brightener. Annual cleaning and maintenance of your MOSO® Bamboo X-treme® decking is recommended.

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.

Board Standard Groove / Smooth (reversible)



2x2 Deck Tile Smooth



1x4 T&G



1x8 Soffit, Trim & Fascia Board



2x2 Beam



Product / Surface	Grooved	Unfinished	Size	Dimensions (")	Dimensions (mm)
Board Smooth/Smooth	Both sides (G2)	BO-DK20-G2-96UF	1 x 4 x 6	3/4 x 3 7/8 x 72	20 x 96 x 1830
Board Smooth/Smooth	Not grooved (G0)	BO-DK20-G0-96UF	1 x 4 x 6	3/4 x 3 7/8 x 72	20 x 96 x 1830
Board Standard Groove/Smooth	Both sides (G2)	BO-DK20-G2-UF	1 x 6 x 6	3/4 x 5 3/8 x 72	20 x 137 x 1830
Board Standard Groove/Smooth	One side (G1)	BO-DK20-G1-UF	1 x 6 x 6	3/4 x 5 3/8 x 72	20 x 137 x 1830
Board Standard Groove/Smooth	Both sides (G2)	BO-DK23-G2-UF	1 x 8 x 6	3/4 x 7 x 72	20 x 178 x 1830
Sub Frame Joist	No	BO-SB155	2 x 3	1 1/2 x 2 3/8 x 96	40 x 60 x 2440
2x2 Deck Tile Smooth	No	BO-DKTL38-8S-UF	2 x 2	1 1/2 x 23 7/8 x 23 7/8	38 x 606 x 606
1x4 T&G Smooth	Yes	BO-POR-18-96-UF	1 x 4 x 6	3/4 x 3 7/8 x 72	18 x 96 x 1830
Soffit, Trim & Fascia Board Smooth	No	BO-LUM20-205	1 x 8 x 6	3/4 x 8 x 73 1/4	20 x 205 x 1860
Soffit, Trim & Fascia Board Smooth	No	BO-LUM20-305	1 x 12 x 6	3/4 x 12 x 73 1/4	20 x 305 x 1860
Soffit, Trim & Fascia Board Smooth	No	BO-LUM40-152	2 x 6 x 6	1 1/2 x 6 x 73 1/4	40 x 152 x 1860
Siding Smooth	Yes	BO-SID18-137	1 x 6 x 6	3/4 x 5 3/8 x 73	18 x 137 x 1850
Siding Smooth	Yes	BO-SID18-178	1 x 8 x 6	3/4 x 7 x 73	18 x 178 x 1850
Fencing Smooth	Yes	BO-DTHT302TG-UF	1 x 6	3/4 x 5 3/8 x 72	20 x 137 x 1830
2x2 Beam	No	BO-DTHT2173-2	2 x 2	1 1/2 x 11/2 x 79	40 x 40 x 2000
2x4 Beam	No	BO-DTHT2175-2	2 x 4	1 1/2 x 3 1/2 x 79	40 x 90 x 2000

Product	Code
Fastener Asymmetric with screw (20 mm)	CLIP-SCREW-BX08

X-tremely sustainable



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

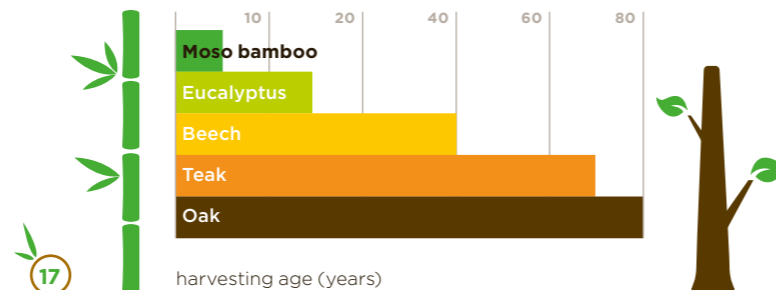


breeam
★★★★★
outstanding

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/understanding-bamboos-climatechange-potential).



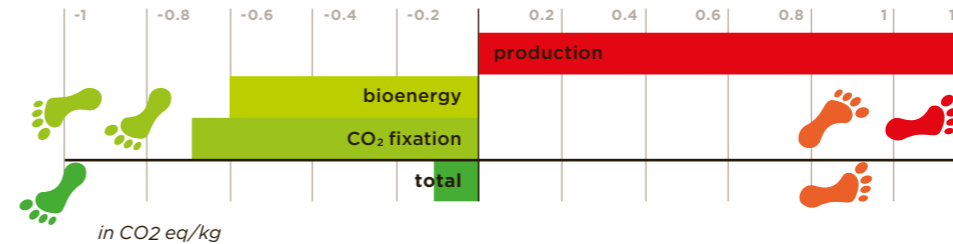
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carbon footprint

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

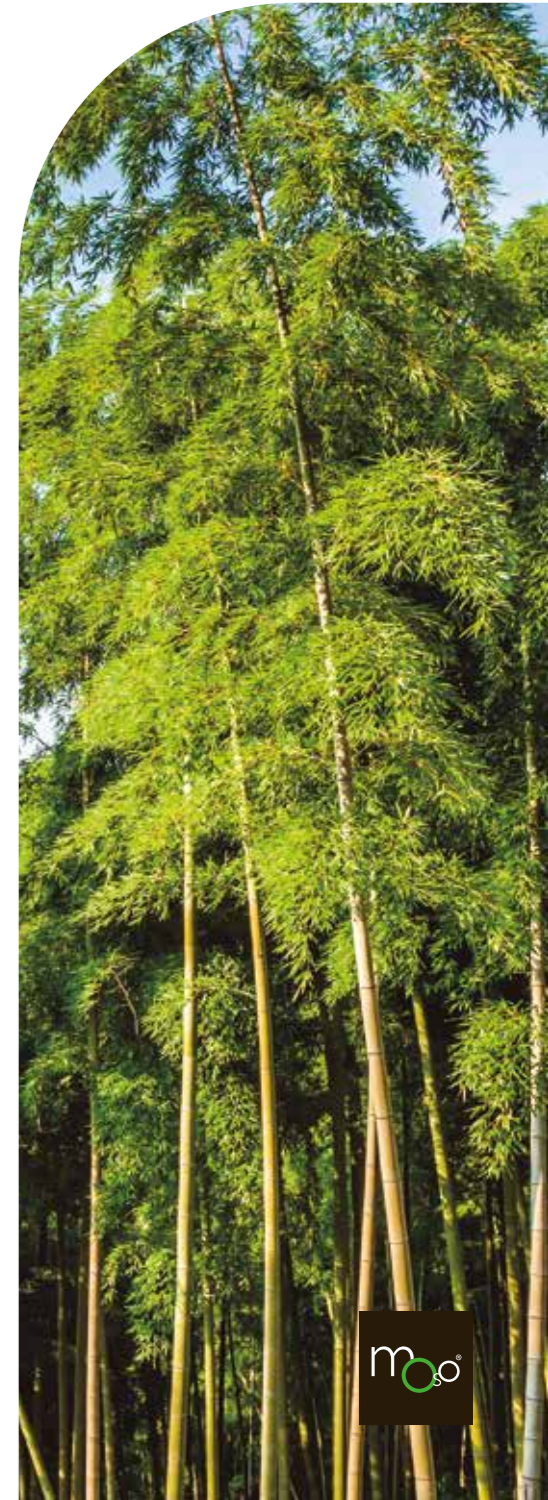
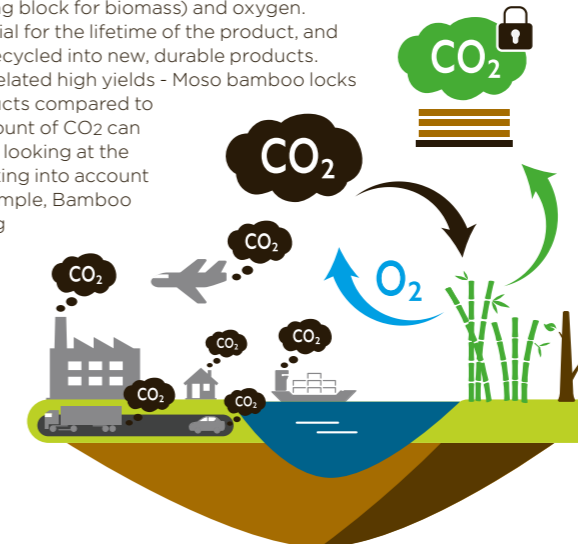
MOSO® has conducted an LCA and carbon footprint study together with Delft University of Technology (TU Delft) and INBAR. The report (www.moso-bamboo.com/lca) concludes that all assessed MOSO® Products (all solid bamboo flooring, decking, beams, panels and veneer) are CO₂ negative over the full life cycle ("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).



carbon storage in bamboo

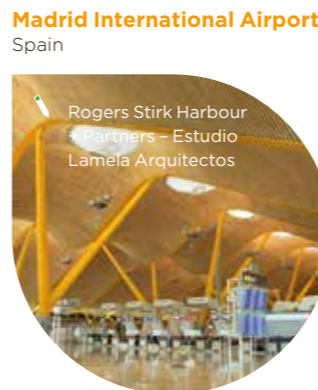
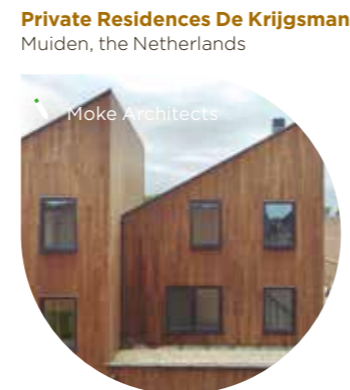
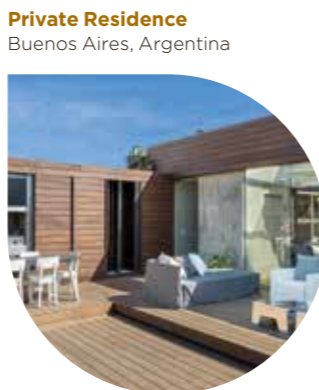
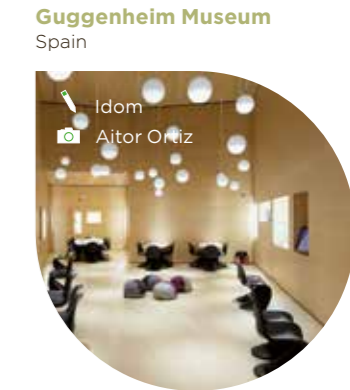
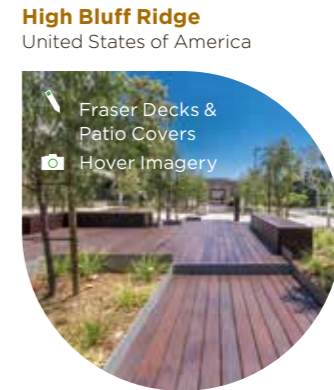
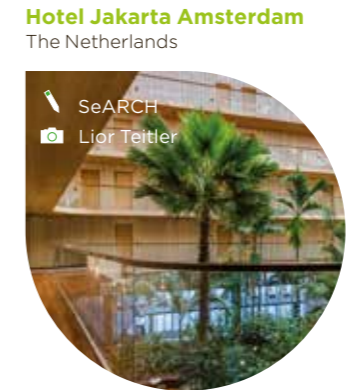
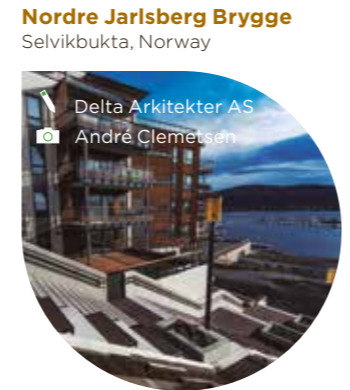
biobased materials act as CO₂ sinks

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.



X-treme® references

- 1 Apartment Dror Golan
▶ www.moso-bamboo.com/dror-golan
- 2 Hotel W Barcelona
▶ www.moso-bamboo.com/hotel-w
- 3 Private Residence Solana Beach
▶ www.moso-bamboo.com/solana
- 4 Wellness Residence Alpenrose
▶ www.moso-bamboo.com/alpenrose
- 5 De Banjaard
▶ www.moso-bamboo.com/banjaard
- 6 Hotel 1882 Barcelona
▶ www.moso-bamboo.com/hotel-1882
- 7 Lodge Puku Ridge
▶ www.moso-bamboo.com/puku
- 8 Beach promenade Tel-Aviv
▶ www.moso-bamboo.com/promenade
- 9 Private Residence Casa Blanca
▶ www.moso-bamboo.com/casa-blanca
- 10 Marine Dock Candlewood Lake
▶ www.moso-bamboo.com/candlewood-lake
- 11 Hotel Villa Elena
▶ www.moso-bamboo.com/hotel-elena
- 12 Garden house
▶ www.moso-bamboo.com/garden-house
- 13 SPEEHOUSE
▶ www.moso-bamboo.com/spee
- 14 MOSO office Barcelona
▶ www.moso-bamboo.com/moso-barcelona
- 15 Renovation City Centre Leverkusen
▶ www.moso-bamboo.com/leverkusen
- 16 Oxygen event complex
▶ www.moso-bamboo.com/oxygen
- 17 Venco Campus
▶ www.moso-bamboo.com/venco



Be inspired by hundreds of bamboo applications and countless projects made with a wide range of MOSO® bamboo products:
▶ www.moso-bamboo.com/references



D.S Blay
Architecture
Shai Gil



about MOSO®

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, Worcester (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
45 million sqft
installed in
more than
60 countries



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x-treme

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