

MOSO[®]
bamboo x-treme[®]
the new generation
in sustainable
decking



**Moso bamboo
the fast growing
hardwood
alternative**

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



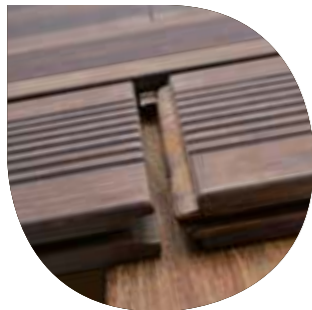
x-tremely stable 14



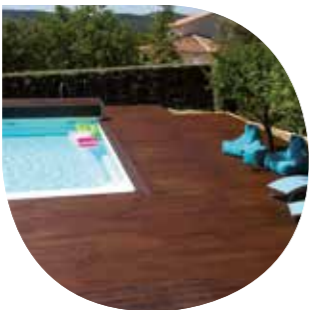
x-tremely versatile 18



x-tremely unique 23



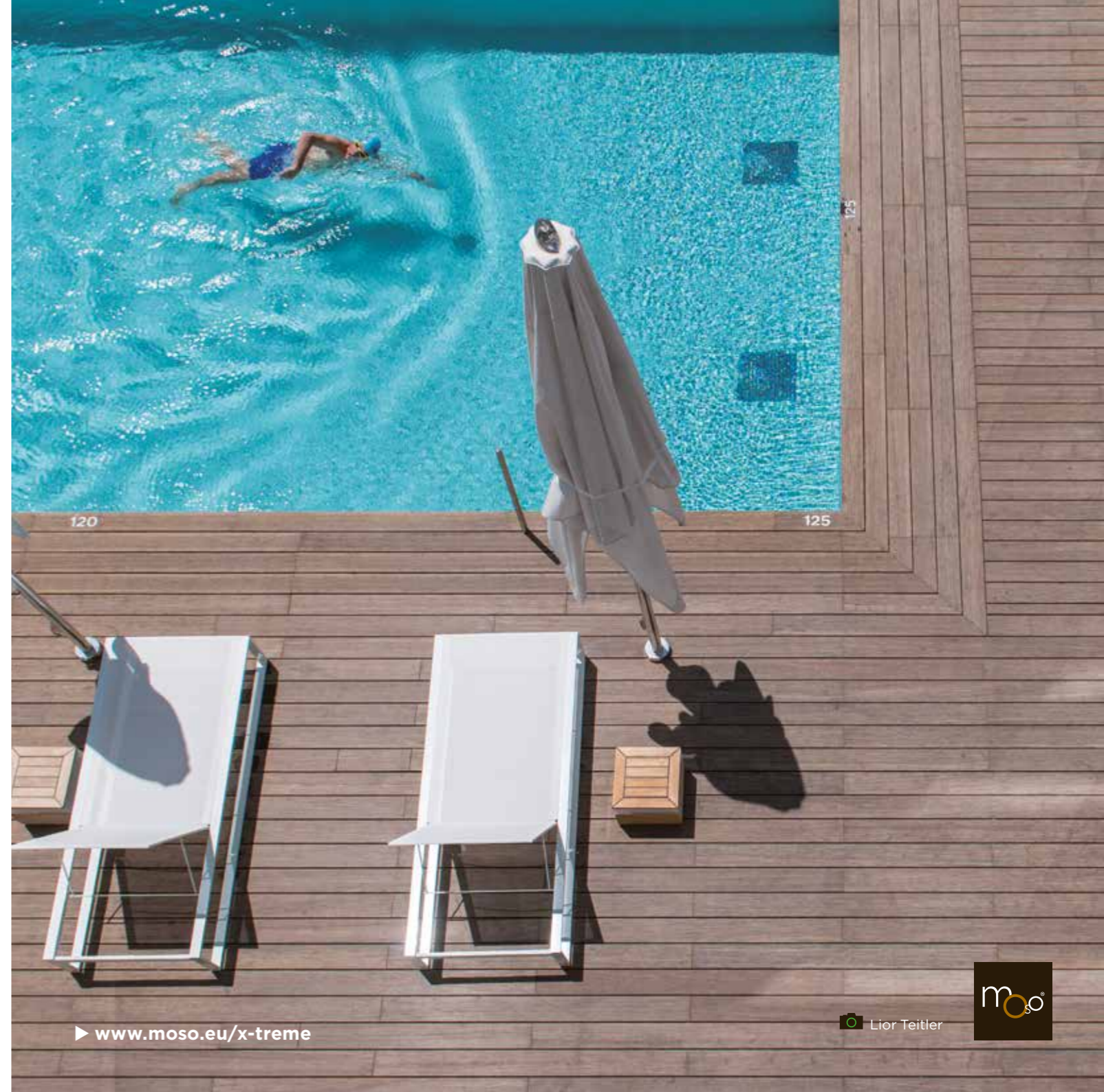
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x-tremely impressive 31



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.



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





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Daniele Kaehr

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



Simon Garcia



x-tremely durable

MOSO® Bamboo X-treme® is engineered to last for a lifetime. Thanks to a special, patented, Thermo-Density® production process, it is very durable. The proof is the 2.000.000 m² already installed in various different climates all over the world.

► www.moso.eu/durable



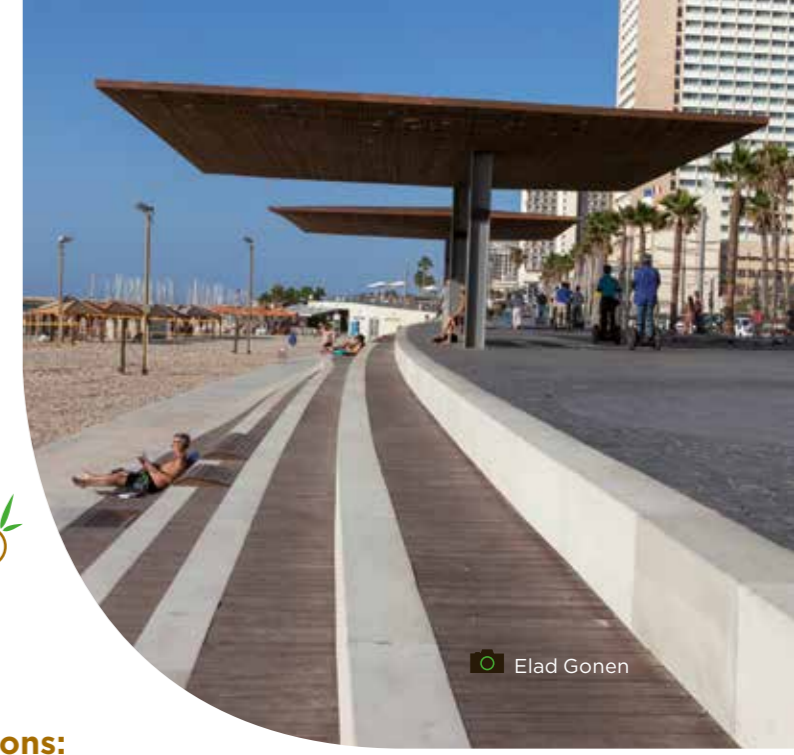


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Lior Teitler

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Elad Gonen

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.

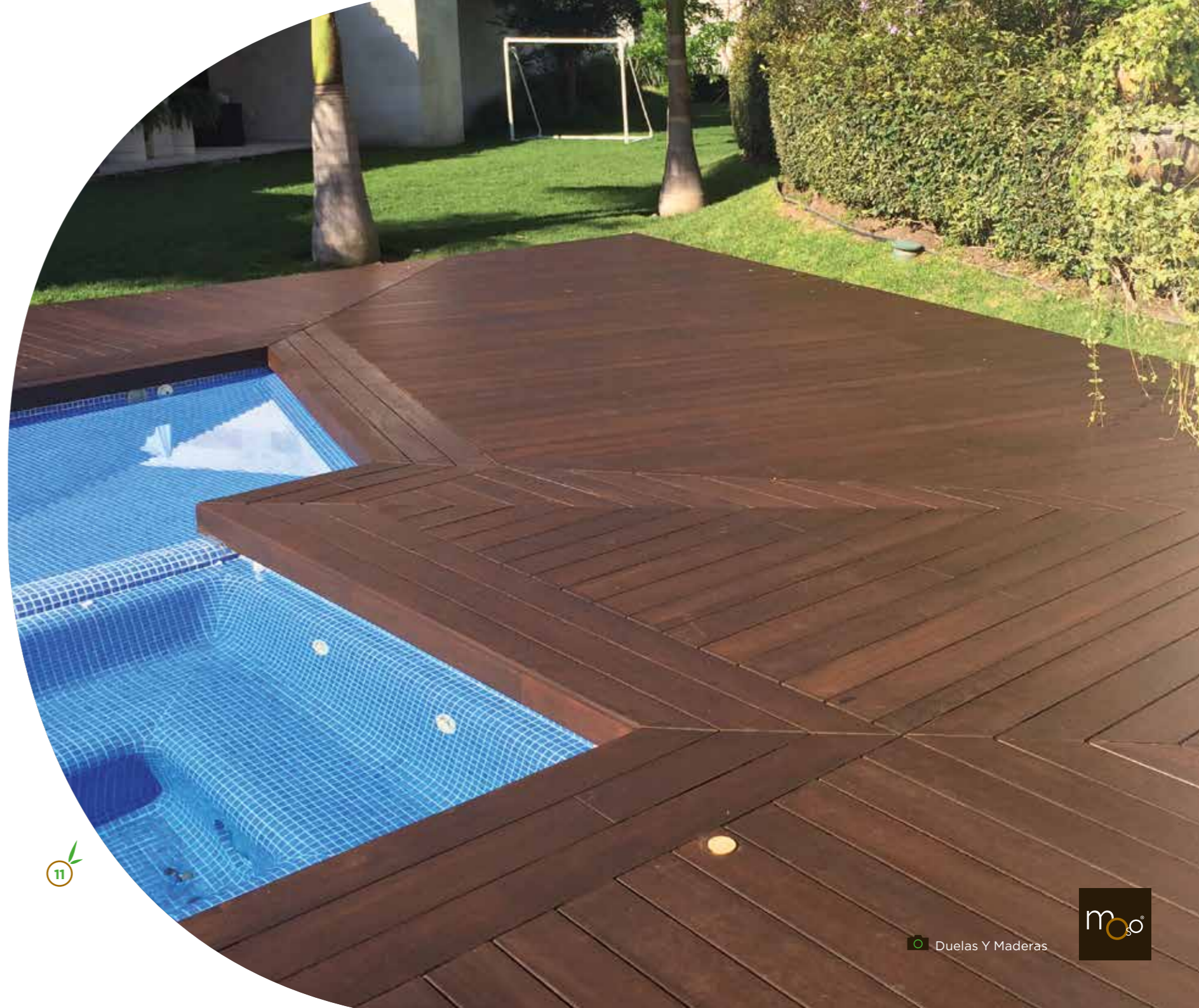


x-tremely stable

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.

Duelas Y Maderas

m_{oso}



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





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



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Roussel Photography



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 strips with a special patented 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 fibres, 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 strips with a heat-treatment at 200°C



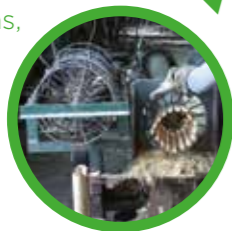
compressing the fibres into High Density® material



finally creating the final profile and surface



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

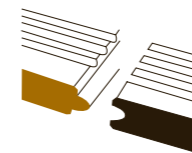


MOSO® Bamboo X-treme®: material more stable, harder and stronger than almost any other hardwood in the world!

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 head side tongue and groove connection (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 the head side tongue and groove.



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 fire safety class Bfl-s1 following EN 13501-1 facilitating application in public projects.

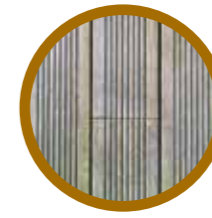
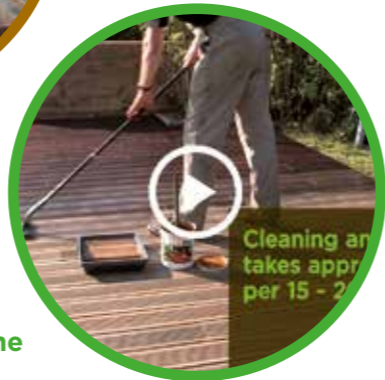


x-tremely complete

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.eu/x-treme

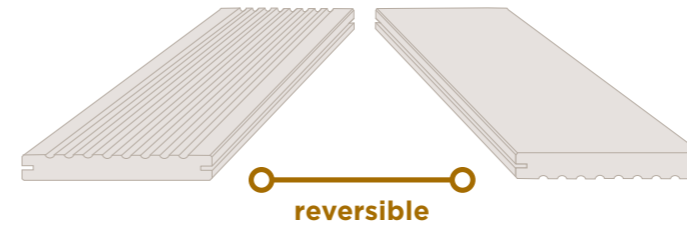


after 12-18 months weathering

after brushing & cleaning

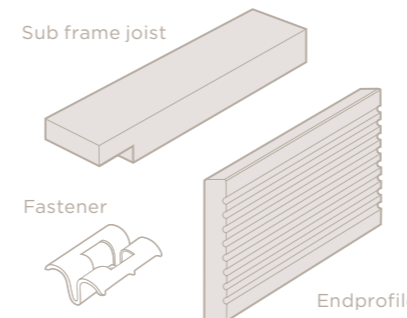
after treatment with decking oil

Board ribbed Board flat



*) Headsides protected with wax

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
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 + screw	CLIP-SCREW-BX03	27x22.5x10.8
Fastener starter/end + screw	CLIP-SCREW-BX301	27x17x31
Endprofile	BO-DTHT162	1850x137x20



Also available with FSC® certification.



The mark of responsible forestry
FSC® C002063

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 should 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.

▶ 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



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Studio de Brink



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breeam
★★★★★
outstanding

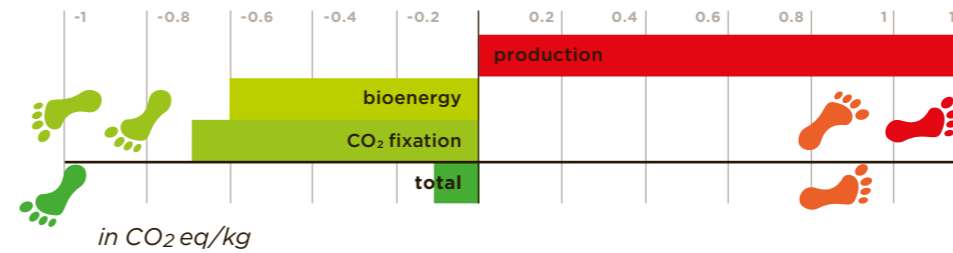
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For more information about these references please go to page 28.

carbon footprint

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

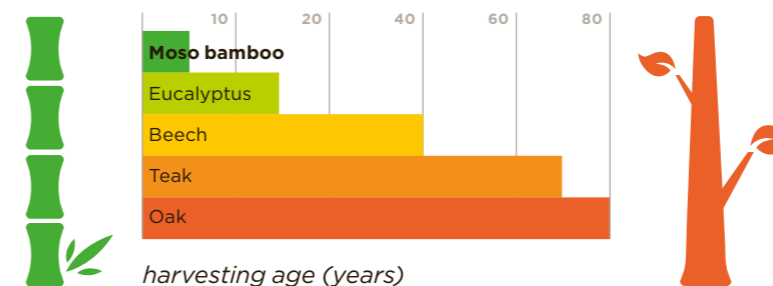
MOSO® has commissioned Delft University of Technology to conduct an official LCA and carbon footprint study. The report (www.moso.eu/lca) concludes that all assessed MOSO® products (all solid bamboo flooring, decking, beams, panels and veneer) are CO₂ negative over the full life cycle ("cradle till grave").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

Moso 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®.



moso

x-tremely nice references

- 1 Private Residence Briga Netanya
▶ www.moso.eu/briga
- 2 Villa Mollans-sur-Ouvèze
▶ www.moso.eu/mollans
- 3 Apartments Residenza Lotus
▶ www.moso.eu/lotus
- 4 Villa Tossa de Mar
▶ www.moso.eu/tossa
- 5 Head office Jumbo
▶ www.moso.eu/jumbo
- 6 Roof Garden De Boel
▶ www.moso.eu/boel
- 7 Apartments Meier On Rothschild
▶ www.moso.eu/meier
- 8 Beach promenade Tel-Aviv
▶ www.moso.eu/promenade
- 9 Terrace Norway
▶ www.moso.eu/terrace-norway
- 10 Hard Rock Hotel & Casino Punta Cana
▶ www.moso.eu/hard-rock
- 11 Private Residence Guanajuato-Leon
▶ www.moso.eu/leon
- 12 Clinea Residence medical clinic
▶ www.moso.eu/clinea
- 13 Private Residence Cape Town
▶ www.moso.eu/cape-town
- 14 Brightlands Chemelot Campus
▶ www.moso.eu/chemelot
- 15 Private Residence Babolsar
▶ www.moso.eu/babolsar
- 16 Youth Olympic Park
▶ www.moso.eu/olympic-park
- 17 Boutiques Hermès
▶ www.moso.eu/hermes
- 18 Venco Campus
▶ www.moso.eu/venco
- 19 PSES University
▶ www.moso.eu/pses
- 20 Head office AGC
▶ www.moso.eu/agc
- 21 The Gas Museum
▶ www.moso.eu/gas

Hospital Necker

France



Patrick Meller

Texaco Gas Station

The Netherlands

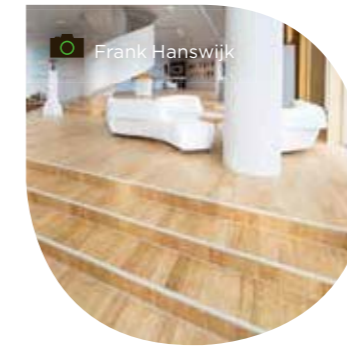


Derako



AkzoNobel Center

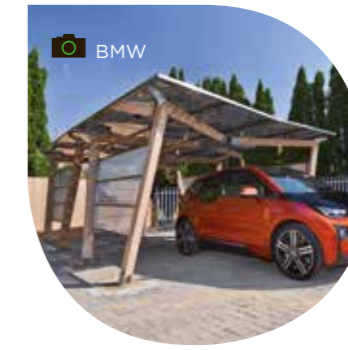
The Netherlands



Frank Hanswijk

BMW Solar Carport

South Africa



BMW

Guggenheim Museum

Spain



Aitor Ortiz

Offices University Lira

Chile



Hunter Douglas

Event Location Werk 3

Germany



Qin International GmbH

Campus Hotel Hertenstein

Switzerland



Beat Brechbühl



OD Talamanca Hotel

Spain



OD

Schiphol Airport

The Netherlands



Thijs Wolzak

Private Residence

Mexico



Event location / Restaurant Quinta do Farejal

Portugal



Silvia Vieira

Hotel Ushuaia Ibiza

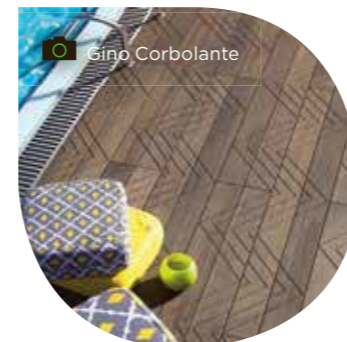
Spain



Alejandro Naranjo

Taylor collection

Italy



Gino Corbolante

Madrid International Airport

Spain



Auditorium Treviglio

Italy



MOSO® world leading in bamboo
www.moso.eu/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 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.



since 2008 over
2.000.000 m²
installed in
more than
50 countries

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bamboo
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