MOSO®
.bamboo x-treme®
the new generation
in sustainable
decking
Moso bamboo
the fast growing hardwood alternative
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.
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 beautiful
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

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.
**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.
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.
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®.

**hard & durable**
The only bamboo decking with class I durability (EN 350) tested following CEN/TS 15083-2 (simulated graveyard test). Exceptionally hard: Brinell >9.5 kg/mm².

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

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

**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.

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

**easy to install**
Very easy to install thanks to the fixed board length (1850 mm) and fixing with MOSO® fasteners.

**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).

**economical**
Simple and fast installation: Up to 30% savings in costs! Reduced waste of material because of the head side tongue and groove.

**x-tremely unique**
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harvesting after 5 years
modify the bamboo strips with a heat-treatment at 200°C
split the Moso bamboo stems, remove the outer skin and crush the strips
compressing the fibres into High Density® material
finally creating the final profile and surface
MOSO® Bamboo X-treme®: material more stable, harder and stronger than almost any other hardwood in the world!
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.

**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.

**Product**

<table>
<thead>
<tr>
<th>Product</th>
<th>Code</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board unfinished</td>
<td>BO-DTHT170G</td>
<td>1850x137x20</td>
</tr>
<tr>
<td>Board pre-oiled Woca</td>
<td>BO-DTHT171G</td>
<td>1850x137x18</td>
</tr>
<tr>
<td>Board unfinished</td>
<td>BO-DTHT190G</td>
<td>1850x137x18</td>
</tr>
<tr>
<td>Board pre-oiled Woca</td>
<td>BO-DTHT191G</td>
<td>1850x137x18</td>
</tr>
<tr>
<td>Board unfinished</td>
<td>BO-DTHT210G</td>
<td>1850x155x20</td>
</tr>
<tr>
<td>Board pre-oiled Woca</td>
<td>BO-DTHT211G</td>
<td>1850x155x20</td>
</tr>
<tr>
<td>Sub frame joist</td>
<td>BO-SB50</td>
<td>2440x70x40</td>
</tr>
<tr>
<td>Sub frame joist</td>
<td>BO-SB55</td>
<td>2440x60x40</td>
</tr>
<tr>
<td>Fastener + screw</td>
<td>CLIP-SCREW-BX03</td>
<td>27x22.5x0.8</td>
</tr>
<tr>
<td>Fastener starter/endpoint + screw</td>
<td>CLIP-SCREW-BX300</td>
<td>27x22.5x0.8</td>
</tr>
<tr>
<td>Endprofile</td>
<td>BO-DTHT162</td>
<td>1850x37x20</td>
</tr>
<tr>
<td>Sub frame joist</td>
<td>BO-SB50</td>
<td>2440x70x40</td>
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</tbody>
</table>

*) Headsides protected with wax

**x-tremely easy**

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

- www.moso.eu/x-treme

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**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.

**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®.

For more information about these references please go to page 28.
x-tremely nice references

1. Private Residence Briga Netanya
   www.moso.eu/briga
2. Villa Meilan-Que-Ouzbkin
   www.moso.eu/meilan
3. Apartments Residence Lotus
   www.moso.eu/apartments
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 De Rothschild
   www.moso.eu/meier
8. Beach promenade Tel-Aviv
   www.moso.eu/promenade
9. Terrace Norway
   www.moso.eu/terrace-norway
10. Hotel Rock Hotel & Casino Punta Cana
    www.moso.eu/hard-rock
11. Private Residence Guanajuato-Leon
    www.moso.eu/leon
12. Apartments Residence Cape Town
    www.moso.eu/cape-town
13. Clinea Residence medical clinic
    www.moso.eu/clinea
14. Private Residence Babolsar
    www.moso.eu/babolsar
15. Youth Olympic Park
    www.moso.eu/olympic-park
16. Suites Hermes
    www.moso.eu/hermes
17. Vespa Campus
    www.moso.eu/vespa
18. PSS University
    www.moso.eu/pss
19. Head office AGC
    www.moso.eu/agc
20. The Gas Museum
    www.moso.eu/gas
21. IM International GmbH

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MOSO® Bamboo Flooring

MOSO® Bamboo Panels, Veneer & Beams

MOSO® Unlimited Solutions

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