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

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 45 million sq ft already installed in different climates all over the world.

www.moso-bamboo.com/durable
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.

www.moso-bamboo.com/durable
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.

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

Lior Teitler
Tarik Hart
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.

For more information on these references please go to page 28.
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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®.

harvesting after 4-5 years
modify the bamboo strands with a heat-treatment at 200°C
split the Moso bamboo stems, remove the skins and crush the strips into strands
compressing the strands into Thermo-Density® material
finally creating the final profile and surface

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 4-5 years, and the plant continues to grow. Consisting of > 90% natural bamboo.

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.

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

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.

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**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.

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**appearance and color**

MOSO® Bamboo X-treme® is a natural product, which can vary in color, grain and appearance. Color shift changes 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).

**maintenance and cleaning**

Under the influence of wind, rain, sun and snow the decking will weather. The 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.

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**Product / Surface**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Grooved/Smooth</th>
<th>Dimensions (&quot;&quot;&quot;)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BO-DK20-G2-96UF</td>
<td>Smooth/Smooth</td>
<td>1 x 4 x 6</td>
<td>20 x 96 x 152</td>
</tr>
<tr>
<td>BO-DK20-G0-96UF</td>
<td>Smooth/Smooth</td>
<td>1 x 4 x 6</td>
<td>20 x 96 x 152</td>
</tr>
<tr>
<td>BO-DK23-G2-96UF</td>
<td>Standard Groove/Smooth</td>
<td>1 x 8 x 6</td>
<td>20 x 178 x 1830</td>
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<tr>
<td>BO-POR-18-96-UF</td>
<td>T&amp;G Smooth</td>
<td>1 x 4 x 6</td>
<td>18 x 96 x 152</td>
</tr>
<tr>
<td>BO-DTHT2173-2</td>
<td>Beam Smooth</td>
<td>2 x 2</td>
<td>20 x 178 x 1830</td>
</tr>
<tr>
<td>BO-DTHT2175-2</td>
<td>Beam Smooth</td>
<td>2 x 4</td>
<td>20 x 190 x 1830</td>
</tr>
</tbody>
</table>

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**Product Code**

<table>
<thead>
<tr>
<th>Product</th>
<th>Fastener Asymmetric with screw (20 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIP-SCREW-BX08</td>
<td>25</td>
</tr>
</tbody>
</table>

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**WARRANTY 25 YEARS**

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**new, non-weathered decking**

- after 3 months of weathering
- after 36 months of weathering

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**X-tremely easy check out the Bamboo X-treme® maintenance movie at:**

- [www.moso-bamboo.com/youtube/minutes](http://www.moso-bamboo.com/youtube/minutes)
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.

http://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/understanding-bamboos-climate-change-potential). For more information about this reference please go to page 28.

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.

carbon storage in bamboo

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).
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 Kelso Beach
   - www.moso-bamboo.com/kelso
4. Weilinao Residence Alpens Rose
   - www.moso-bamboo.com/alpensrose
5. De Banjard
   - www.moso-bamboo.com/banjard
6. Hotel 1883 Barcelona
   - www.moso-bamboo.com/hotel-1883
7. Lodge Puck Ridge
   - www.moso-bamboo.com/puck
8. Beach Promenade Yel-Ad
   - www.moso-bamboo.com/promenade
9. Private Residence Casa Blanca
   - www.moso-bamboo.com/casa-blanca
10. Mater Rock Cascadelwood Lake
    - www.moso-bamboo.com/cascadelwood-lake
11. Hotel Villa Elena
    - www.moso-bamboo.com/hotel-elsa
12. Garden House
    - www.moso-bamboo.com/garden-house
13. SPAHOUSE
    - www.moso-bamboo.com/space
14. MOSO office Barcelona
    - www.moso-bamboo.com/moso-barcelona
15. Renovation City Centre Levenshuis
    - www.moso-bamboo.com/levenshuis
16. Oxygen event complex
    - www.moso-bamboo.com/oxygen
17. Venice Campus
    - www.moso-bamboo.com/venice

MOSO® Bamboo Outdoor

1. Residential building Braun-hubergasse 28
   - Vienna, Austria
2. Hard Rock Hotel Los Cabos
   - Los Cabos, Mexico
3. Pharos
   - The Netherlands
4. Hotel Villa Elena
   - www.moso-bamboo.com/hotel-elsa
5. Garden House
   - www.moso-bamboo.com/garden-house
6. SPAHOUSE
   - www.moso-bamboo.com/space
7. MOSO office Barcelona
   - www.moso-bamboo.com/moso-barcelona
8. Renovation City Centre Levenshuis
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9. Oxygen event complex
   - www.moso-bamboo.com/oxygen
10. Venice Campus
    - www.moso-bamboo.com/venice

MOSO® Bamboo Flooring

1. Hotel Jakarta Amsterdam
   - The Netherlands
2. High Bluff Ridge
   - United States of America
3. Grand Resort Dolder
   - Switzerland
4. De Banjard
   - www.moso-bamboo.com/banjard
5. Hotel 1883 Barcelona
   - www.moso-bamboo.com/hotel-1883
6. Lodge Puck Ridge
   - www.moso-bamboo.com/puck
7. Beach Promenade Yel-Ad
   - www.moso-bamboo.com/promenade
8. Private Residence Casa Blanca
   - www.moso-bamboo.com/casa-blanca
9. Mater Rock Cascadelwood Lake
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15. Oxygen event complex
    - www.moso-bamboo.com/oxygen
16. Venice Campus
    - www.moso-bamboo.com/venice

MOSO® Bamboo Panels, Veneer & Beams

1. Private Residence De Krijgsman
   - Muiden, the Netherlands
2. Madrid International Airport
   - Spain
3. CityLife Shopping District
   - Italy
4. Hotel Villa Elena
   - www.moso-bamboo.com/hotel-elsa
5. Garden House
   - www.moso-bamboo.com/garden-house
6. SPAHOUSE
   - www.moso-bamboo.com/space
7. MOSO office Barcelona
   - www.moso-bamboo.com/moso-barcelona
8. Renovation City Centre Levenshuis
   - www.moso-bamboo.com/levenshuis
9. Oxygen event complex
    - www.moso-bamboo.com/oxygen
10. Venice Campus
    - www.moso-bamboo.com/venice
11. MOSO Bamboo Outdoor
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13. Private Residence Kelso Beach
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16. Hotel 1883 Barcelona
17. Lodge Puck Ridge
18. Beach Promenade Yel-Ad
19. Private Residence Casa Blanca
20. Mater Rock Cascadelwood Lake
21. Hotel Villa Elena
22. Garden House
23. SPAHOUSE
24. MOSO office Barcelona
25. Renovation City Centre Levenshuis
26. Oxygen event complex
27. Venice Campus

MOSO® Bamboo Unlimited

1. Boulevard
2. Pool deck
3. Decking
4. Facades
5. Interior design
6. Villa
7. Deck
8. Balcony
9. Outdoor furniture
10. Garden
11. Landscape
12. Architectural elements
13. Sunscreen
14. Screen
15. Blinds
16. Sun protection
17. Moso® Bamboo flooring
18. Moso® Bamboo panels
19. Moso® Bamboo veneer
20. Moso® Bamboo beams

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