

MOSO® Bamboo Panels, Beams & Veneer

*Beautiful and
sustainable
interior solutions*

The logo for MOSO, featuring the lowercase letters 'm' and 'o' in a light green color, with a registered trademark symbol (®) to the upper right of the second 'o'. The letters are set against a dark green square background.



Bamboo locks
enormous amounts
of CO₂

Bamboo: the fastest
growing plant
in the world

MOSO® Bamboo Panels, Beams & Veneer

With MOSO® Bamboo Panels, Beams and Veneer a **beautiful interior** can be created made of naturally-grown bamboo. MOSO® offers **multiple solutions** for interior projects, such as: **furniture, worktops, window and door frames, kitchens, doors, stairs or wall and ceiling coverings**. MOSO® Bamboo Panels, Beams & Veneer are split into a Solid and a Supra. Be inspired and introduce **bamboo** to any **interior design!**

Beautiful 6



Durable & stable 8



Versatile 10



Well made 12



Solid collection 14



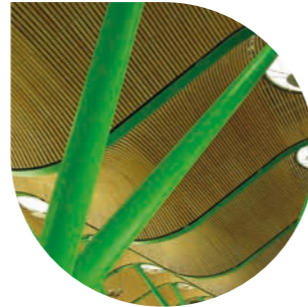
Supra collection 24



Sustainable 30



References 32



CityLife Shopping District Milan, Italy

Zaha Hadid Architects

Hufton+Crow

367868 kg CO₂



Beautiful

Enrich any interior project with MOSO® Panels, Beams and Veneer. Whether a decorative or structural solution is desired, there are numerous possibilities for each application. Similar to wood, the final look can be determined with many different finishes.



Hotel Jakarta Amsterdam, The Netherlands

6

SeARCH

Lior Teitler

172786 kg CO₂

breem
★★★★
excellent



Lexus Lounge at Brussels Airport, Belgium

FITCH

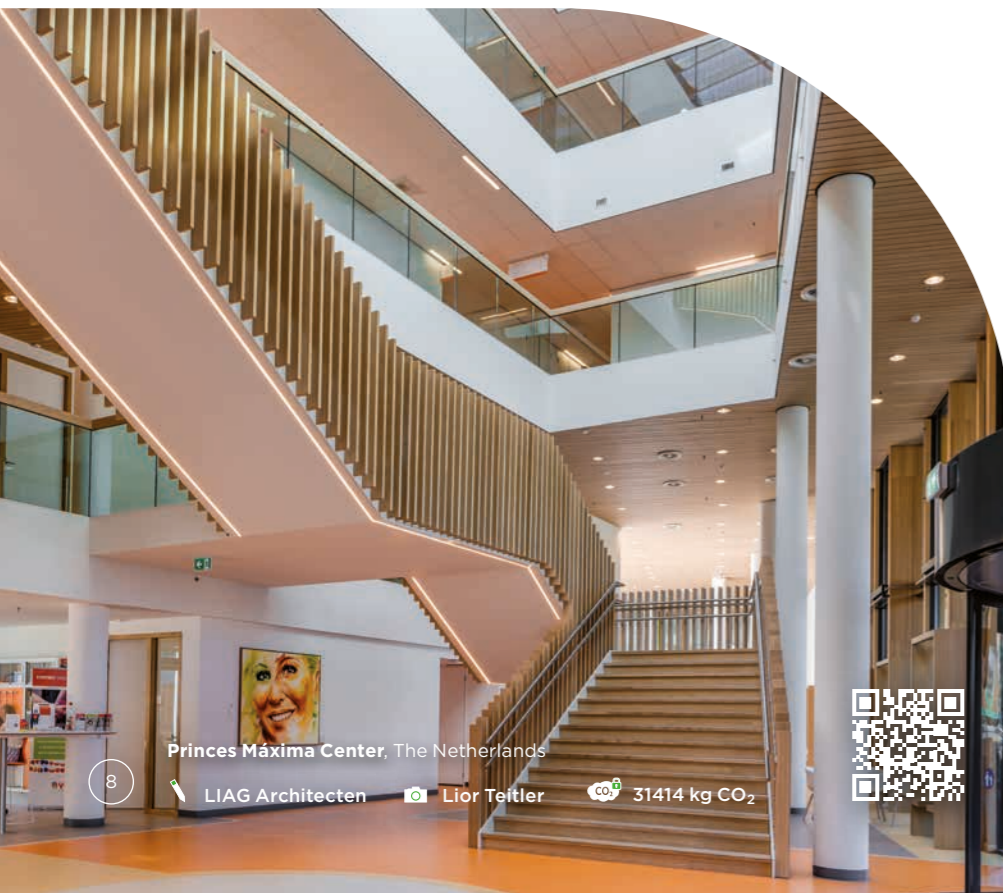
Lior Teitler



Durable & stable

Thanks to the composition of individual bamboo strips and the positioning and direction of each layer in multiply products, MOSO® Bamboo Panels and Beams will shrink and swell less than most solid wood species, providing more stability. With a hardness and density similar to, or better than, the best hardwood products, they are even suitable for use in heavy duty applications. MOSO® Bamboo Products are engineered to last a lifetime.

► www.moso-bamboo.com/durable





Versatile

MOSO® Bamboo Panels, Beams and Veneer are available in different colours and textures, and in various sizes. Depending on the finish or surface treatment, any design can be achieved by selecting the most fitting style. MOSO® Bamboo Products can be used for custom made furniture, worktops, window and door frames, kitchens, doors, stairs, wall and ceiling coverings and many more applications.



Headquarter ASICS EMEA, The Netherlands

10

Powerhouse Company Hans Gorter Fotografie



Private Residence Asker, Norway

Mats Holst



Well made

Moso bamboo is one of the fastest growing plants on earth. The bamboo stems grow from an underground root system. After 4-5 years a stem can be harvested, while the younger stems continue to grow. Each year new shoots sprout from the root system. This means that the bamboo can be used without harming the forest. After harvesting, the Moso bamboo stems are split and the inner and outer skins are removed. The untreated strips have a yellowish colour (Natural) but can be lightly steamed, reducing the yellowish tone (Ecrú) or more intensely steamed for a warm brown colour (Caramel). After treating and drying, the strips are ready to be processed in several ways to make the final MOSO® Bamboo Product:



MOSO® Benefits

Assembly of strips:



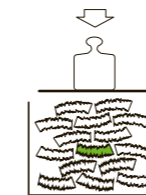
Plain Pressed

Strips are placed horizontally and glued together to create a wide line pattern with the characteristic bamboo nodes clearly visible.



Side Pressed

Strips are placed vertically and glued together to create a narrow line pattern with the bamboo nodes visible in a subtle way.



High Density*

Strips are crushed into strands, compressed and glued under high pressure, creating an elegant random grain pattern. The result is a product that is even harder than the best tropical hardwood species.



Hard & durable

With a hardness and density similar to or better than the best hardwood products, MOSO® Bamboo Panels, Beams and Veneer are even suitable for use in heavy duty applications. All products are Brinell ±4 kg/mm². High Density* is exceptionally hard: Brinell ±9.5 kg/mm².



Fireproof

Solid Bamboo High Density* as material has a fire resistance class B-s1-d0, following EN 13501-1 facilitating application in public projects.



Endless resource

Made from bamboo, one of the fastest growing plants on earth. Each stem can be harvested after 4-5 years, and the plant continues to grow.



High stability

Due to the composition of individual strips and multiple cross pressed layers, MOSO® Bamboo Panels and Beams will shrink and swell less than solid wood species, providing more stability.



Healthy

The MOSO® Bamboo Panels, Beams and Veneer have low formaldehyde emissions meeting the E1 Class (EN 717-1) or EO Class.



Stored Carbon

Due to the fast growth - and related high yields - Moso bamboo locks far more CO₂ in durable products compared to wood species.



Multiple solutions

MOSO® Bamboo Products offer multiple solutions for worktops, furniture, window and door frames, kitchens, doors, stairs, wall and ceiling coverings, and many more indoor applications.



Beautiful appearance

Creates a beautiful, natural look. Final appearance can be determined with many different finishes.



Super flexible*

The intrinsic flexibility of bamboo as a material, combined with lamination techniques provide a unique material with very interesting design opportunities such as curved forms.

* Only for MOSO® Veneer



MOSO® Bamboo Solid Collection

MOSO® offers a very **broad assortment** of solid bamboo panels and beams in **various sizes, thicknesses, colours** and **textures**. These products have been used worldwide in various applications, including **door and window frames, stairs, ceilings, pillars, curtain walls, furniture, kitchens** and **doors**.

MOSO® Bamboo Solid Panels 16
Multilayer boards

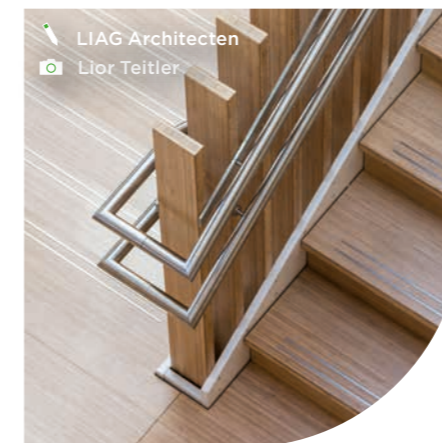
The line pattern combined with a natural look creates numerous design possibilities.

MOSO® Bamboo Solid Beams 18
Decorative & structural

Striking look for decorative applications. Create very long lengths with Bamboo N-finity Beams, tested for structural applications.

MOSO® Bamboo N-vision 22
Inspired by nature

Unleash the creativity from within and envision any design with round beams inspired by nature.



LIAG Architekten
Llor Teitler



Landmark Vastgoed
Robbert Vögtlander



Skidmore, Owings & Merrill LLP (SOM)
Lindner Group
Larsen & Toubro



Multiple layers of solid bamboo

With imagination and creativity, many design solutions benefit from the beautiful look of MOSO® Bamboo Solid Panels. The toplayer defines the wear resistance and hardness, which can last a lifetime.

7 mm
Side Pressed
Ecrú / Caramel
3-ply
2440 x 1220 mm



16 mm
Plain / Side Pressed
Ecrú / Caramel
3-ply
2440 x 1220 mm



19 mm
Side Pressed
Ecrú / Caramel
1-ply
2440 x 1220 mm



20 mm
Plain / Side Pressed
Ecrú / Caramel
3-ply
2440 x 1220 mm



20 mm
High Density*
Natural / Caramel / Tiger*
3-ply
2440 x 1220 mm



20 mm
Plain Pressed
Ecrú / Caramel
5-ply and 3-ply
2440 x 1220 mm



25 mm
Plain / Side Pressed
Ecrú / Caramel
3-ply
2440 x 1220 mm



30 mm
Plain / Side Pressed
Ecrú / Caramel
3-ply
2440 x 1220 mm



38 mm
High Density*
Natural / Caramel
5-ply
2440 x 1220 mm



38 mm
High Density*
Caramel
5-ply
3100 / 4000 x 700 mm



40 mm
Plain / Side Pressed
Ecrú / Caramel
5-ply
2440 x 1220 mm



40 mm
Plain / Side Pressed
Ecrú / Caramel
5-ply
3000 / 4000 x 700 mm



Hermes City Plaza, The Netherlands

Standard Studio Wouter van der Sar 45097 kg CO₂

* Mix of natural and caramel strips.

Long bamboo lengths for decorative applications

MOSO® Bamboo Solid Beams are ideal for decorative applications such as table and chair legs, (linear) wall cladding, stair railings, door and window frames etc. The beams are available in various sizes, are easy to process and can be requested to size for projects.



55 mm
Side Pressed
Ecrú / Caramel
3-ply
2440 x 55 mm



Side Pressed Ecrú

72 mm
Side Pressed
Ecrú / Caramel
5-ply
2440 x 120 mm



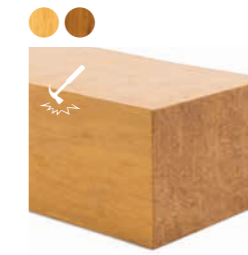
Side Pressed Caramel

100 mm
Side Pressed Ecrú / Caramel,
5-ply
2440 x 120 mm



Side Pressed Ecrú

72 mm
High Density*
Natural / Caramel
1-ply
2440 x 120 mm



High Density* Natural

100 mm
High Density* Caramel
1-ply
2440 x 120 mm



High Density* Caramel



Office Van Oord, The Netherlands

Inbo Architecten

Hennie Raaymakers/DAPh



Structural interior applications

MOSO® Bamboo N-finity Solid Beams are developed for structural interior applications which makes them ideally suited for curtain walls and window and door frames, among others. The bamboo strips are connected with a special patented hook connection - creating the possibility to make very long lengths. MOSO® Bamboo N-finity is the first bamboo material that is certified with an Approval for Structural Applications by the German Institute for Construction technique (DIBt).



51 / 61 / 86 mm
Plain / Side Pressed
Caramel
5800 x 51 / 61 x 161 mm
5800 x 86 x 72 / 82 mm



Inspired by nature

Kempegowda International Airport Terminal 2 with 1,000,000 m³ of bamboo round beams

With the MOSO® Bamboo N-vision collection, MOSO® has created a product that allows the creativity of any designer to be completely unleashed. The beautiful bamboo strips are clearly visible in the stems meaning Bamboo N-vision has a beautiful, natural appearance that can bring any design to life and add an element of warmth. Unleash the creativity from within and envision any design with Bamboo N-vision.

25 mm Side Pressed Ecu 2900 x Ø 25



Solid round beam

30 mm Side Pressed Ecu 2900 x Ø 30



Solid round beam

40 mm Side Pressed Ecu 2900 x Ø 40



Solid round beam

60 mm Side Pressed Ecu 2900 x Ø 60



Solid and hollow round beams

80 mm Side Pressed Ecu 2900 x Ø 80



Solid and hollow round beams





MOSO® Bamboo Supra Collection

The MOSO® Bamboo 1-Ply Panels and Veneer offer **multiple solutions** for a decorative and sustainable bamboo **interior, furniture applications** and **wall and ceiling coverings** in **various sizes, thickness, colours** and **textures**.

MOSO® Bamboo 1-Ply Panels 26

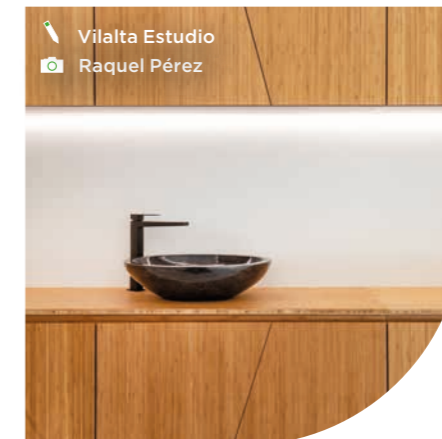
Ready to be pressed on the material required for a project.

MOSO® Bamboo Veneer 28

Veneer sheets can be pressed onto many materials or laminated for creative design solutions.



DS+ Lilia Poptcheva
Lior Teitler



Vilalta Estudio
Raquel Pérez



MOSO® Bamboo 1-Ply Panels

MOSO® Supra Collection

www.moso-bamboo.com/1-ply-panels

Decorative panelling solution

MOSO® 1-Ply Panels consist of one single bamboo layer and are mainly used as a panel covering material. The bamboo product is pressed, preferably double sided, onto a base (for example MDF or chipboard).

4 mm
High Density*
Natural / Caramel
1-ply
2440 x 1220 mm



High Density* Natural

4 mm
High Density*
Tiger*
1-ply
2440 x 1220 mm



High Density* Tiger*

5 mm
Plain / Side Pressed
Ecrú / Caramel
1-ply
2440 x 1220 mm



Side Pressed Ecrú

* Mix of natural and caramel strips.



STC Campus Waalhaven, The Netherlands

DP6 architectuurstudio Hennie Raaymakers/DAPH 152732 kg CO₂



Matrix VII, The Netherlands

Ector Hoogstad Architecten Bart van Hoek 127787 kg CO₂

bream
★★★★
very good

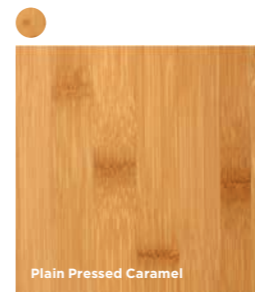


Thin, versatile and decorative layer

MOSO® Bamboo Veneer is created by slicing sheets from laminated blocks made from bamboo strips. The high quality bamboo veneer has to be pressed, preferably double sided, onto a base material or several layers of veneer can be pressed into a multiply product.



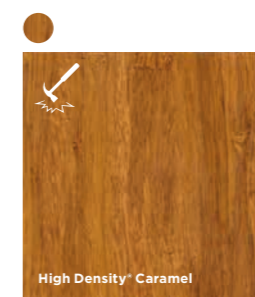
**0.6 mm
Plain Pressed
Caramel**
2500 x 430 / 1250 mm



**0.6 mm
Side Pressed
Ecru / Caramel**
2500 x 430 / 1250 mm,
3100 x 430 / 1250 mm



**0.5 mm
High Density*
Caramel**
2450 x 1250 mm



Minima Lighting, South Africa

Minima Lighting Cape Town



Sustainable

MOSO® Bamboo Products offer clear sustainability advantages that meet the highest technical requirements and quality standards. The inclusion of MOSO® Bamboo Products contributes to a higher LEED, BREEAM, Green Star, HQE and DGNB certification score for green building projects. That's one of the reasons MOSO® Bamboo Products can be found in many sustainable reference projects all over the world. Furthermore, all standard, solid MOSO® Bamboo Products are FSC® certified.

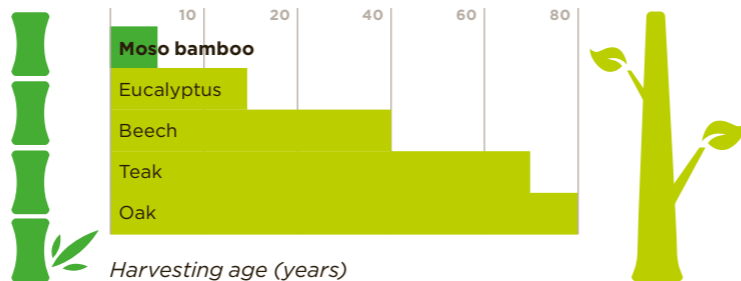


The mark of responsible forestry
FSC® C002063

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 4-5 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 Products, while large amounts of CO₂ are captured in the bamboo forests and products www.inbar.int/understanding-bamboos-climate-change-potential



CityLife Shopping District, Milan, Italy

Zaha Hadid Architects | AndreVisual

30 CO₂ 367868 kg CO₂

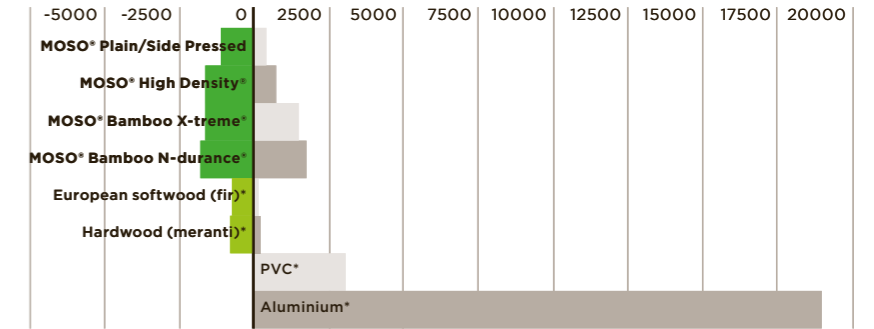


Construction stored carbon

MOSO® Bamboo Products act as a carbon store

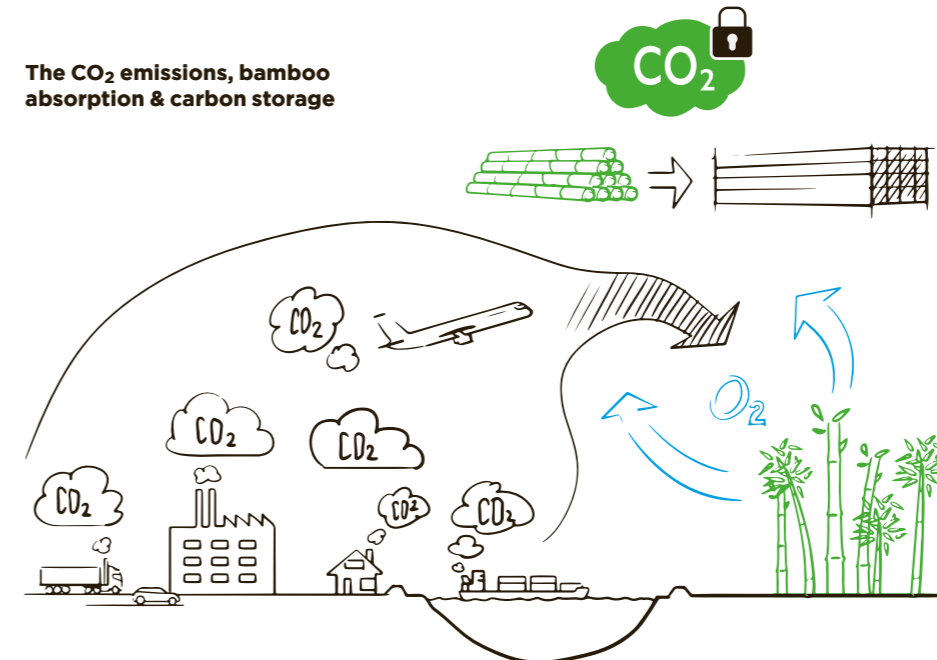
All plants, algae and certain organisms, including Moso Bamboo, undergo a process known as photosynthesis in which carbon is stored in the material throughout its useful life. The locked amount of CO₂ can be calculated rather simply by looking at the density of the material and taking into account the biobased content (biogenic carbon - EN 16449). Since bamboo is so dense, it stores high amounts of carbon throughout the product life cycle. Although this carbon storage is a huge benefit for biobased materials, this carbon storage is not (yet) taken into account in whole life carbon assessments as it is assumed that within 100 years the biobased material will be discarded (decay) or incinerated. However, based on circular economy principles and applied in the built environment in long-lasting applications this carbon storage - also known as Construction Stored Carbon (CSC) - may be perceived as semi-permanent and under certain conditions is even eligible for voluntary carbon credit systems.

CO₂ storage vs. CO₂ emissions during production and transport



in kg CO₂ eq/m³ material
*) Data abiotic materials from Idemat database TU Delft (industry averages).

The CO₂ emissions, bamboo absorption & carbon storage



MOSO® Bamboo References

MOSO®
Bamboo
Panels,
Beams &
Veneer

SJD Pediatric Cancer Center
Spain



MOSO®
Bamboo
Flooring

Pharos
The Netherlands



MOSO®
Bamboo
Outdoor

Higher Roch Tower
France



MOSO®
Bamboo
Custom
Made

Mammoet Jacking Beams
The Netherlands



Shopping Gent Zuid
Belgium



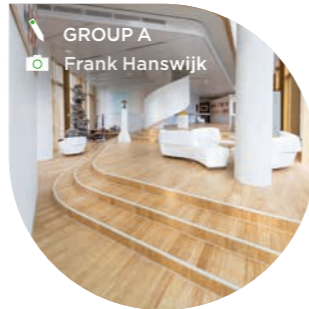
Godai Pavilion
Spain



SNCF - Railway Station
Bordeaux France



AkzoNobel Center & Art Space
The Netherlands



Private Residence
Argentina



Grande Arche de la Défense
France



REINÆRDT
The Netherlands



Stable Doitrand Equestre
France



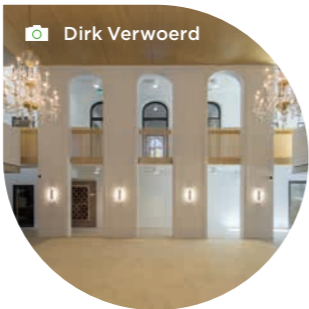
Hotel Hyatt Palace
The Netherlands



Hotel Zoku Amsterdam
The Netherlands



Town Hall Bloemendaal
The Netherlands



Hotel ME Barcelona by Melia
Spain



Belmond Safaris Savute Elephant Lodge
Botswana



Ushuaia Hotel Ibiza
Spain



Madrid International Airport
Spain



Be inspired by hundreds of bamboo applications and countless projects made with a wide range of MOSO® Bamboo Products:



MOSO® Mastering Bamboo

Endless possibilities with MOSO® Bamboo Products:

MOSO® develops and creates bamboo products for indoor and outdoor applications that meet the highest technical requirements and quality standards, enhance the beauty of applications and are made from the sustainable, renewable resource: Moso bamboo.

With over 25 years' experience in the relatively young bamboo industry, MOSO® is recognised as the global A-brand in bamboo because of its focus on product quality, innovation and sustainability. With an international team and partners in more than 60 countries, MOSO® is continuously looking for new applications and solutions that can be made with the fastest growing plant of the world. Besides MOSO® Bamboo Panels, Beams and Veneer, MOSO® offers a very broad assortment of Bamboo Flooring and Bamboo Outdoor products in various sizes, thicknesses, colours and textures. These products are used worldwide in various applications ranging from different types of flooring, stairs, outdoor decking, cladding, fencing, outdoor furniture, shutters and outdoor beams, providing an ideal combination with the MOSO® Solid and Supra Collections.

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 with European quality, warranty, certifications & service. The proof is the impressive list of references and clients such as Madrid Airport, Kempegowda International Airport, BMW, AkzoNobel, Texaco, Guggenheim Museum, SNCF Railway Station Gare du Nord, Iberostar, Rabobank, United Nations (FAO), and CitizenM Hotels. For an overview of project references and clients please visit the website: www.moso-bamboo.com/references.



MOSO® Bamboo Outdoor

*Building the future
with bamboo*



Headquarters:

Moso International B.V.
Adam Smithweg 2
1689 ZW Zwaag
The Netherlands
T +31 (0)229 265732
info@moso.eu

Italy:

Moso Italia S.R.L
Via Antonio Locatelli 86
20853 Biassono (MB)
Italy
T +39 (0)39 900 5440
mosoitalia@moso.eu

North America:

Moso North America HQ
Lansdale PA
United States of America
T +1 855 343 8444
info@moso-bamboo.com

Spain, France, Portugal, North Africa,
Latin America and Middle East:

Moso Europe S.L.U.
C/ Pau Claris, 83 - Principal 2ª
08010 Barcelona
Spain
T +34 (0)93 574 9610
contact@moso.eu

Sub-Saharan Africa:

Moso Africa Pty. Ltd.
7 Glosderry Road Kenilworth
7708 Cape Town
South Africa
T +27 2167 11214
contact@moso-bamboo.co.za

GCC & Arab Countries:

Moso MENA
P.O. Box: 410684
Dubai - UAE
T +971 4 8324934
mosomena@moso-bamboo.com

www.moso-bamboo.com



SeARCH
Lior Teitler
59428 kg CO₂

moso®

Mastering
bamboo

EN2023