

MOSO® BAMBOO



Panels, Beams & Veneer

BEAUTIFUL AND SUSTAINABLE
INTERIOR SOLUTIONS









Pharos - The Lighthouse (in Greek) - Hoofddorp, The Netherlands
ARCHITECT Sheryl Leysner | PHOTOGRAPHER Todays Brew



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Bamboo: the fastest growing plant in the world

BAMBOO LOCKS ENORMOUS AMOUNTS OF CARBON



MOSO® BAMBOO

Panels, Beams & Veneer

With MOSO® Bamboo panels, beams and veneer a beautiful interior can be created made of naturally-grown bamboo. MOSO® Bamboo 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 collection. Be inspired and introduce bamboo to any interior design!

More about
Sustainability

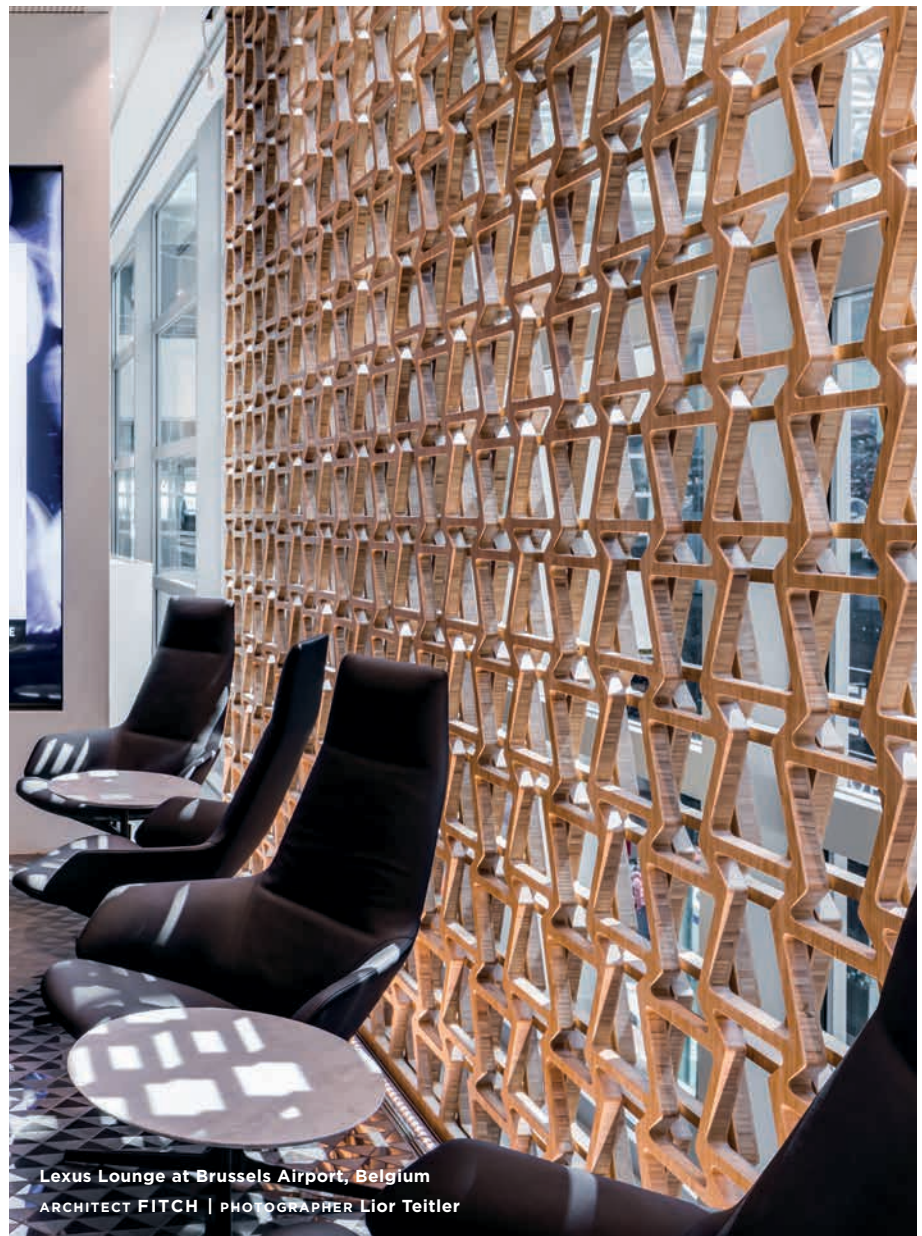






Bamboo design

Enrich any interior project with MOSO® Bamboo 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.



Lexus Lounge at Brussels Airport, Belgium
ARCHITECT FITCH | PHOTOGRAPHER 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.



Princes Máxima Center - Utrecht, the Netherlands
ARCHITECT LIAG Architecten | PHOTOGRAPHER Lior Teitler









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.





MOSO® BAMBOO

Benefits



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 $\pm 4 \text{ kg/mm}^2$. High Density is exceptionally hard: Brinell $\pm 9.5 \text{ kg/mm}^2$.



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.



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.



FIREPROOF

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



HEALTHY

All MOSO® Bamboo panels, beams and veneer meet E05 formaldehyde emission requirements according to EN 16516 and comply with the REACH emission limit of $\leq 0.062 \text{ mg/m}^3$ for furniture and wood-based articles.



BEAUTIFUL APPEARANCE

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



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. There is no deforestation.



STORED CARBON

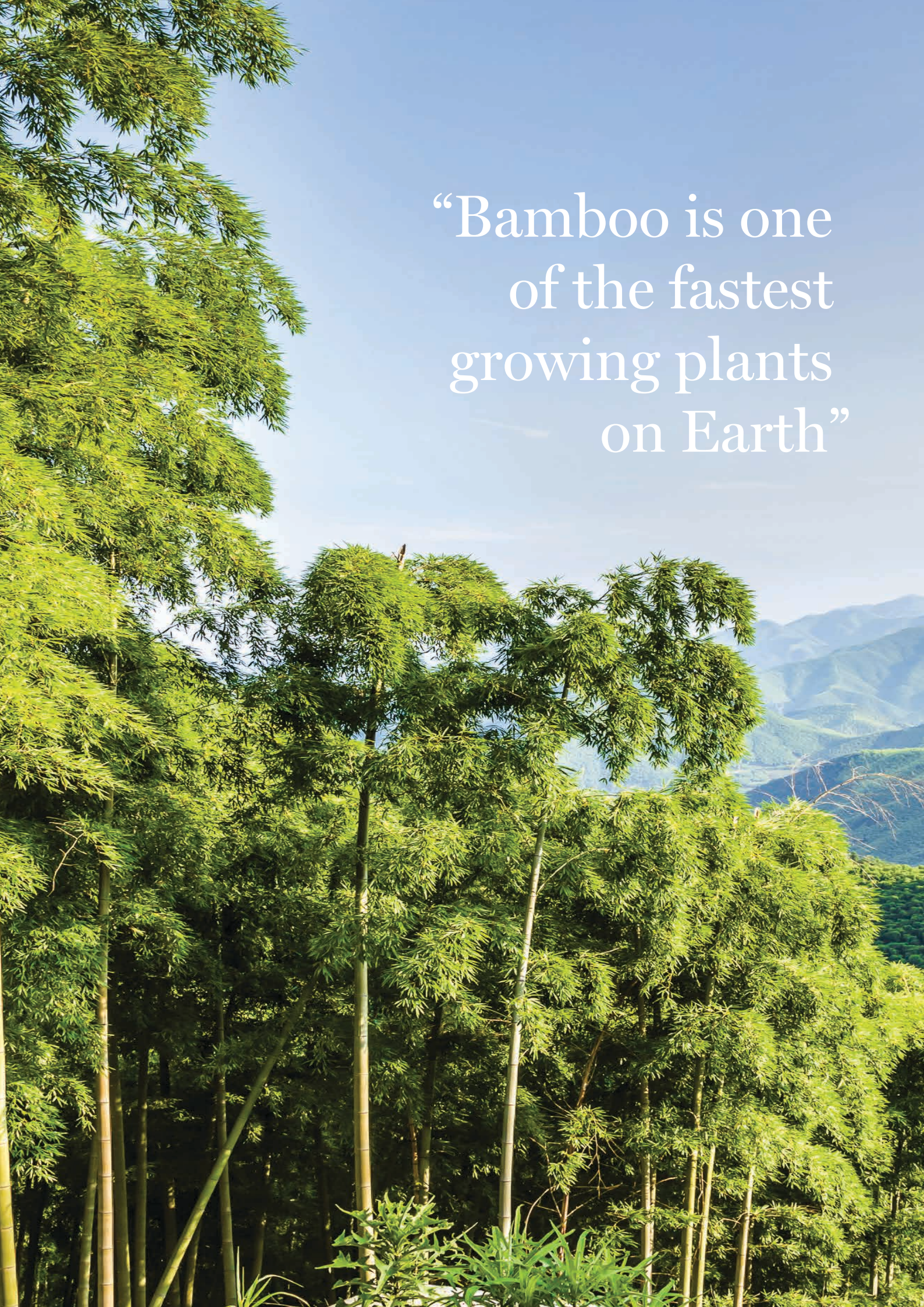
Due to the fast growth - and related high yields - bamboo locks far more carbon in durable products compared to wood species.



More about
Bamboo benefits



“Bamboo is one
of the fastest
growing plants
on Earth”







MOSO® BAMBOO

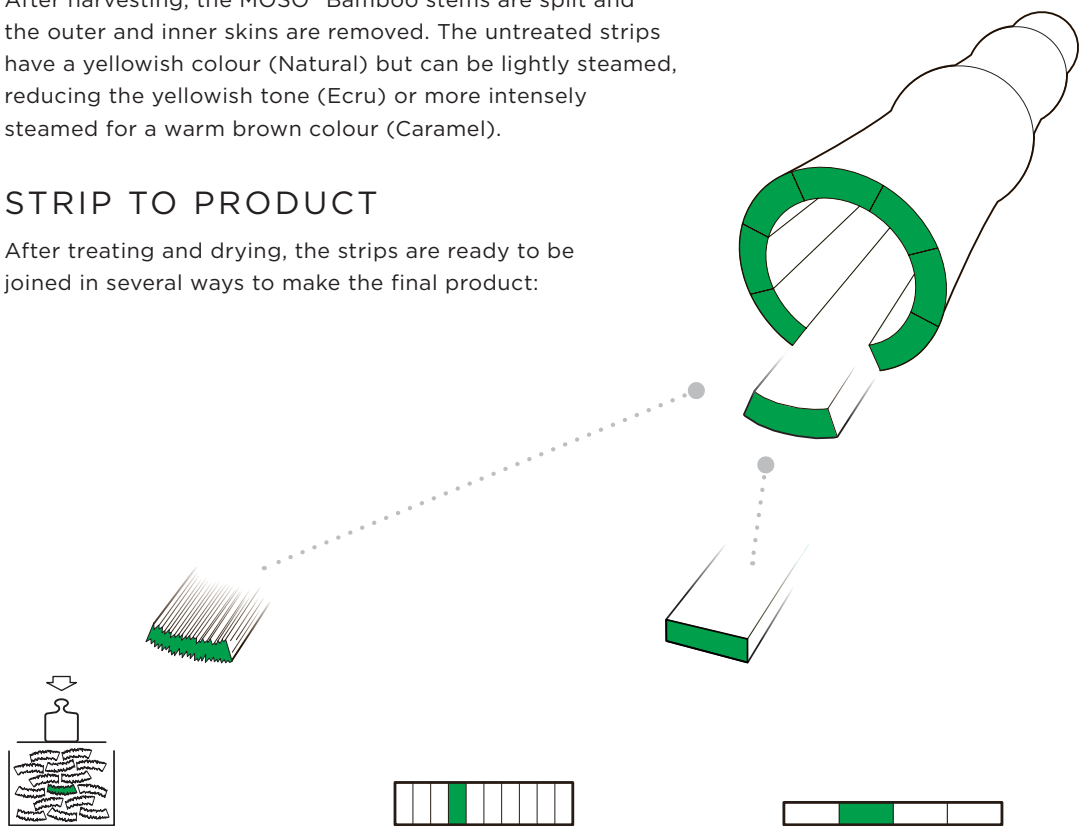
From plant to product

STEM TO STRIP

After harvesting, the MOSO® Bamboo stems are split and the outer and inner skins are removed. The untreated strips have a yellowish colour (Natural) but can be lightly steamed, reducing the yellowish tone (Ecru) or more intensely steamed for a warm brown colour (Caramel).

STRIP TO PRODUCT

After treating and drying, the strips are ready to be joined in several ways to make the final product:



High Density

Strips are crushed, compressed and glued under high pressure, creating a random line pattern. The result is even harder than the best tropical hardwood species.

Side Pressed

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

Plain Pressed

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



Extra hard

In this brochure, High Density is indicated by a hammer.

More about
**How bamboo
products are made**





Commercial Center Mitikah - Ciudad de Mexico, Mexico
ARCHITECT Sordo Madaleno Arquitectos | PHOTOGRAPHER Jaime Navarro



MOSO® BAMBOO

Solid collection

MOSO® Bamboo 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.

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SOLID PANELS

Multilayer boards

23

SOLID BEAMS

Long bamboo lengths for decorative applications

25

N-FINITY

Constructive bamboo for interior applications

27

N-VISION

Inspired by nature

MOSO® BAMBOO

Solid panels

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

ECRU / CARAMEL
3-PLY | 2440 X 1220 MM



16 MM

Plain / Side Pressed

ECRU / CARAMEL
3-PLY | 2440 X 1220 MM



19 MM

Side Pressed

ECRU / CARAMEL
1-PLY | 2440 X 1220 MM



20 MM

Plain / Side Pressed

ECRU / CARAMEL
3-PLY | 2440 X 1220 MM



20 MM

High Density

NATURAL / CARAMEL / TIGER*
3-PLY | 2440 X 1220 MM



20 MM

Plain Pressed

ECRU / CARAMEL
5-PLY | 2440 X 1220 MM



25 MM

Plain / Side Pressed

ECRU / CARAMEL
3-PLY | 2440 X 1220 MM



30 MM

Plain / Side Pressed

ECRU / 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

ECRU / CARAMEL
5-PLY
2440 X 1220 MM



40 MM

Plain / Side Pressed

SIDE PRESSED: ECRU / CARAMEL
PLAIN PRESSED: CARAMEL
5-PLY | 3000 / 4000 X 700 MM



More about
Solid panels

*MIX OF NATURAL AND CARAMEL STRIPS





MOSO® BAMBOO

Solid beams

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.



ECRU

55 MM

Side Pressed

ECRU / CAMEL
3-PLY | 2440 X 55 X 55 MM



CAMEL

72 MM

Side Pressed

ECRU / CAMEL
5-PLY | 2440 X 120 X 72 MM



NATURAL

72 MM

High Density

NATURAL / CAMEL
1-PLY | 2440 X 120 X 72 MM



ECRU

100 MM

Side Pressed

ECRU / CAMEL
5-PLY | 2440 X 120 X 100 MM



100 MM

High Density

CAMEL
1-PLY | 2440 X 120 X 100 MM



More about
Solid beams







MOSO® BAMBOO

N-finity

CONSTRUCTIVE BAMBOO FOR INTERIOR APPLICATIONS

MOSO® Bamboo N-finity Solid beams are developed for structural interior applications which make 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). The beams are available on request in the maximum dimensions of 200 x 120 x 12000 mm.



51 / 61 / 86 MM

Plain / Side Pressed

CARAMEL

5800 X 51 / 61 X 161 MM

5800 X 86 X 72 / 82 MM

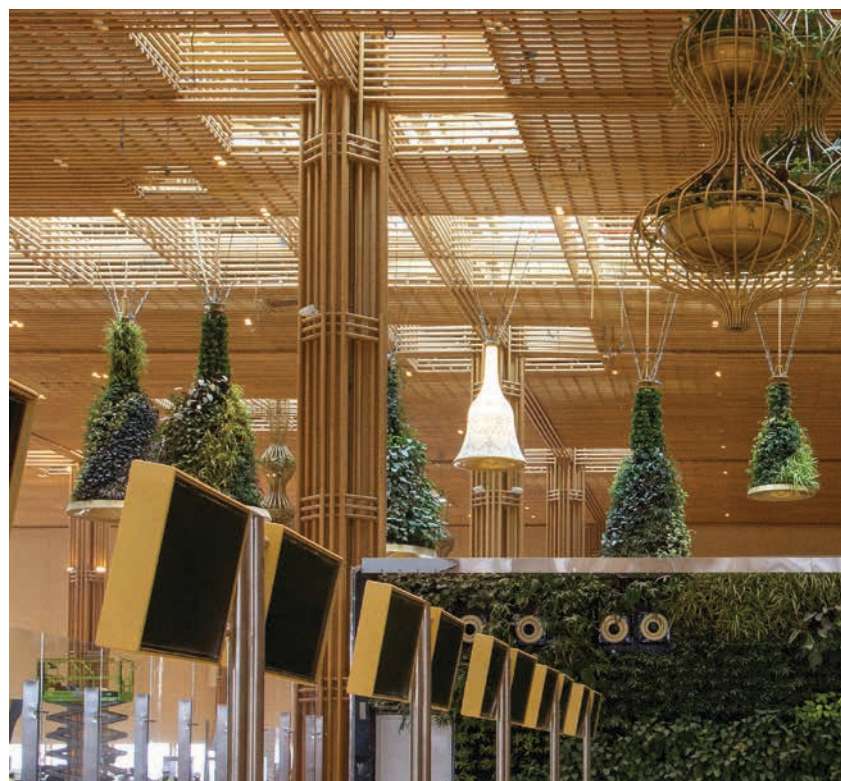


More about
N-finity





Kempegowda
 International Airport
 Terminal 2
 with 1,000,000 m1 of
 bamboo round beams





MOSO® BAMBOO

N-vision

INSPIRED BY NATURE

With the MOSO® Bamboo N-vision collection, MOSO® Bamboo 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 MOSO® 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 MOSO® Bamboo N-vision.



25 MM

Side Pressed

ECRU
2900 X Ø 25
SOLID ROUND BEAM



30 MM

Side Pressed

ECRU
2900 X Ø 30
SOLID ROUND BEAM



40 MM

Side Pressed

ECRU
2900 X Ø 40
SOLID ROUND BEAM



60 MM

Side Pressed

ECRU
2900 X Ø 60
SOLID ROUND BEAM



80 MM

Side Pressed

ECRU
2900 X Ø 80
SOLID ROUND BEAM

More about
N-vision





Museum van Bommel van Dam - Venlo, The Netherlands
ARCHITECT BiermanHenket | PHOTOGRAPHER Stijn Poelstra



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.

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1-PLY PANELS

Decorative panelling solution

33

VENEER

Thin, versatile and decorative layer





MOSO® BAMBOO

1-Ply Panels

DECORATIVE PANELLING SOLUTION

MOSO® Bamboo 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



4 MM
High Density
TIGER*
1-PLY | 2440 X 1220 MM



5 MM
Plain / Side Pressed
ECRU / CARAMEL
1-PLY | 2440 X 1220 MM



More about
1-Ply Panels



Bridge Pont d'Issy Orange Head Office - Issy-les-Moulineaux, France
ARCHITECT Viguié | PHOTOGRAPHER Daniel Osso

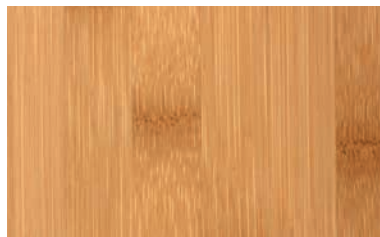


MOSO® BAMBOO

Veneer

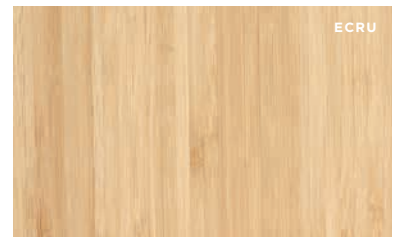
THIN, VERSATILE AND
DECORATIVE LAYER

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.



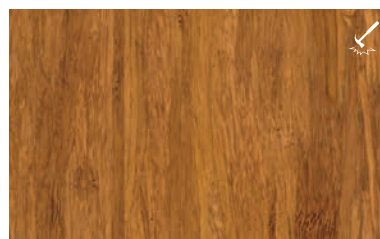
0.6 MM
Plain Pressed

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



More about
Veneer



Sustainable

MOSO® Bamboo products offer clear sustainability advantages. 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.



breeam



HQE®

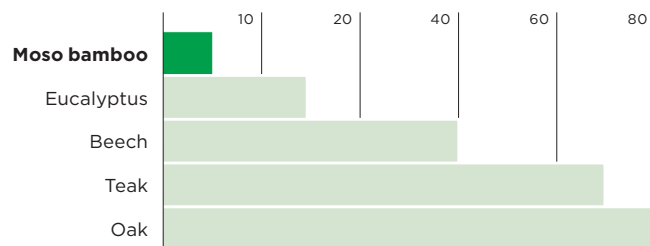


The mark of
responsible forestry
FSC® C002063

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 carbon are captured in the bamboo forests and products (www.inbar.int/understanding-bamboos-climate-change-potential).

HARVESTING AGE (YEARS)

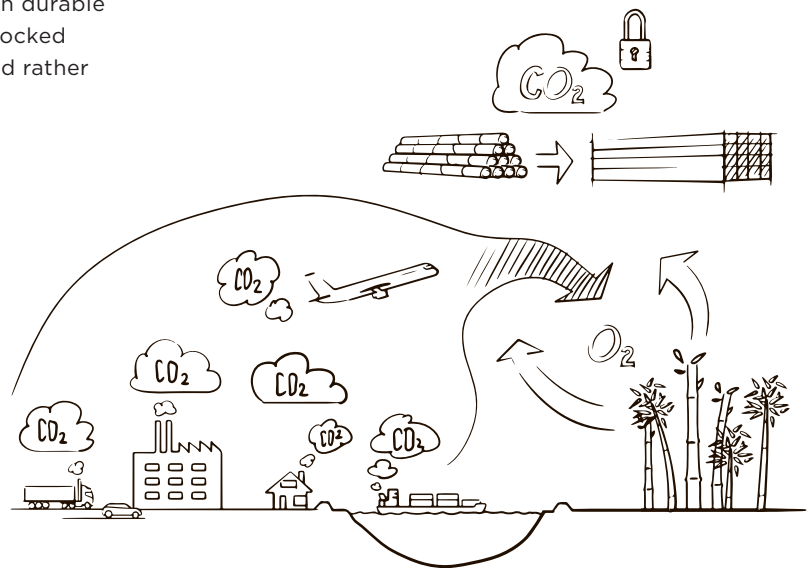




CONSTRUCTION STORED CARBON

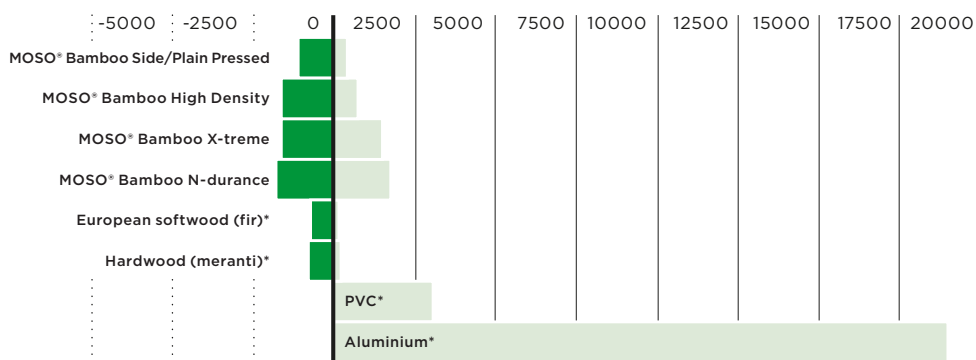
Bio-based materials act as CO₂ sinks. Through photosynthesis, plants absorb carbon dioxide (CO₂) from the atmosphere and convert it into glucose and other organic compounds, effectively storing carbon in plant biomass. The captured CO₂ is stored in the material for the lifetime of the product, and even 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 equivalent can be calculated rather

simply by looking at the density of the material and taking into account the biobased content. For example, MOSO® Bamboo High Density Products lock just over 1.660 kg CO₂ per m³ of bamboo, which is the equivalent of the CO₂ emissions of 14.000 km driven by a mid-range car. As long as the MOSO® Bamboo Products are in use, they can act as a temporary carbon store (Construction Stored Carbon).



The CO₂ emissions, bamboo absorption & carbon storage

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).



Building the future with bamboo





About MOSO® Bamboo

Endless possibilities with MOSO® Bamboo Products:

MOSO® Bamboo 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® Bamboo 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® Bamboo is continuously looking for new applications and solutions that can be made with the fastest growing plant of the world. MOSO® Bamboo offers a broad assortment of bamboo products in various sizes, thicknesses, colours and textures. These products are used in various applications worldwide ranging from different types of flooring, stairs, outdoor decking, cladding, fencing, outdoor furniture, shutters and outdoor beams.

Furthermore, because of its expertise, MOSO® Bamboo 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® Bamboo 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, AkzoNobel, Texaco, Guggenheim Museum, SNCF Railway Station Gare du Nord, Iberostar, Rabobank, United Nations (FAO), and CitizenM Hotels.

More about
MOSO® Bamboo



Our references

MOSO® Bamboo develops and creates bamboo products for interior and exterior applications that meet the highest technical requirements and quality standards. Discover the endless possibilities.

PANELS, BEAMS & VENEER



House Smit

CAPE TOWN, SOUTH AFRICA

ARCHITECT | **Veld Architects**
PHOTOGRAPHER | **Paris Brummer**



Torres i Bages

GIRONA, SPAIN

ARCHITECT | **Estudi Maite Prats**
PHOTOGRAPHER | **Marc Torra - Fragments**



Docks Office

BRUSSELS, BELGIUM

ARCHITECT | **Lilia Poptcheva**
PHOTOGRAPHER | **Lior Teitler**

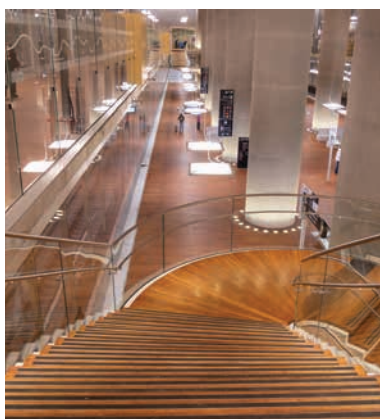
FLOORING



Hotel ME Barcelona by Melia

BARCELONA, SPAIN

ARCHITECT | **Ramon Cortes**
PHOTOGRAPHER | **Melia Hotels**



La Défense Grand Arche train station

PARIS, FRANCE

ARCHITECT | **Agence Duthilleul**
PHOTOGRAPHER | **Didier Boy de la
Tour, Quentin Ducos**



CityLife Shopping District

MILAN, ITALY

ARCHITECT | **Zaha Hadid Architects**
PHOTOGRAPHER | **AndreVisual**



BAMBOO OUTDOOR



Bosch security systems factory

OVAR, PORTUGAL

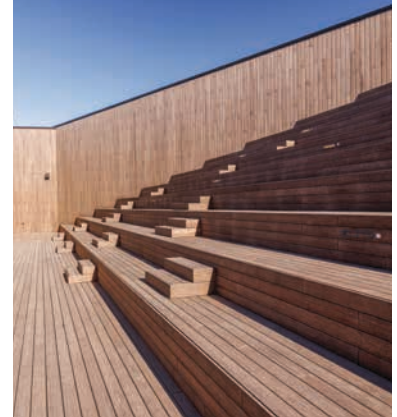
ARCHITECT | Aveiplano



Speehuis

OISTERWIJK, THE NETHERLANDS

ARCHITECT | SPEE architects
PHOTOGRAPHER | Ossip van Duivenbode



The Heidelberg Congress Center

HEIDELBERG, GERMANY

ARCHITECT | Degelo Architekten

INDUSTRY & CUSTOM MADE



Kempegowda T2 International Airport

BENGALURU, INDIA

ARCHITECT | Skidmore, Owings & Merrill LLP (SOM)



Moving Chitty Chatty Bridge

WILDWOOD, FLORIDA, USA

ARCHITECT | Mammoet
PHOTOGRAPHER | Mammoet



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



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ARCHITECT Zaha Hadid Architects | PHOTOGRAPHY Hufton+Crow

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