







# MOSO® bamboo solid & supra collection

With MOSO® Bamboo Panels, Beams, Veneer and Flexbamboo, you can create a **beautiful interior** made of naturally-grown bamboo. Our Bamboo Solid and Supra Collections offer **multiple solutions** for your interior projects, such as: **furniture**, **worktops**, **window and door frames**, **kitchens**, **doors**, **stairs or wall and ceiling coverings**. Be inspired and introduce **bamboo** to your **interior**!

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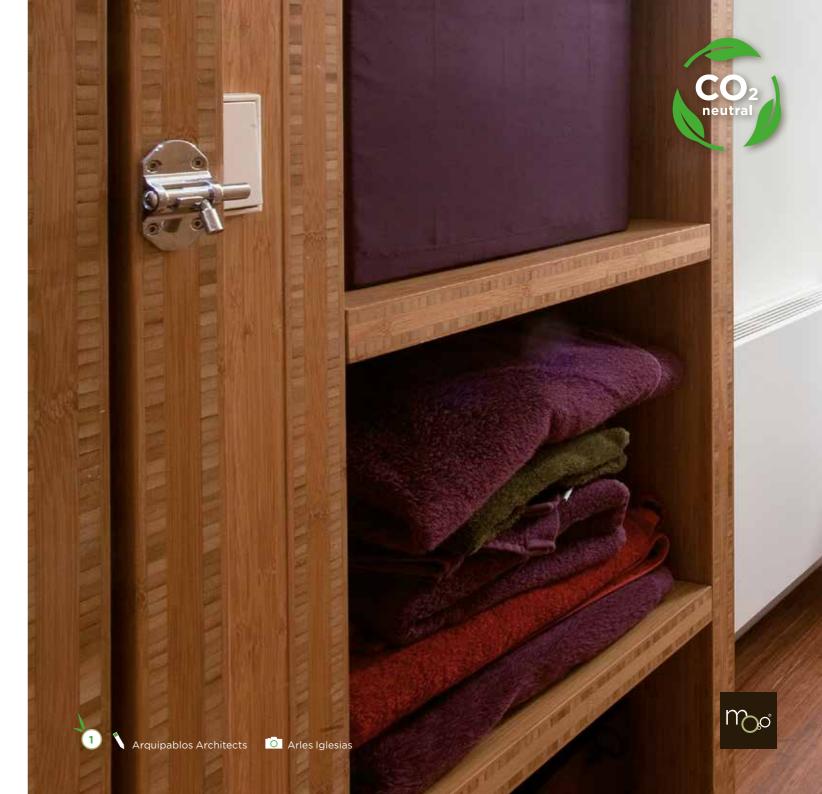


28 custom made



30 sustainable







# beautiful

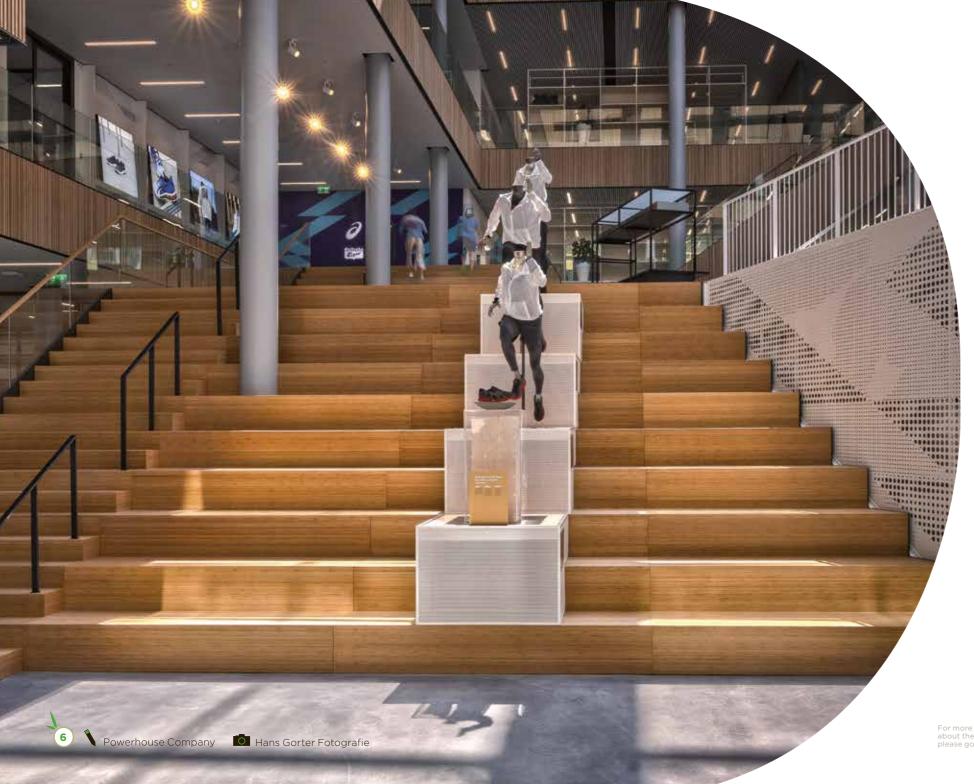
Enrich your interior project with MOSO® Panels, Beams, Veneer and Flexbamboo. Whether you desire a decorative or structural solution, there are numerous possibilities for each application. Similar to wood, the final look can be determined with many different finishes.



# 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.





# versatile

MOSO® Bamboo Panels, Beams, Veneer and Flexbamboo are available in different colours and textures, and in various sizes. Depending on the finish or surface treatment, you can define your own style, just choose the one you like most! 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.



For more information about these references please go to page 32.

## well made

Moso bamboo is one of the fastest growing plants on earth. The bamboo stems grow from an underground root system. After 5 years a stem can be harvested, while the younger stems continue to mature. Each year new stems sprout from the root system. This means that the bamboo can be used without destroying the forest. After harvesting, the Moso bamboo stems are split and the inner and outer skin are removed. The strips naturally have a light yellow colour (natural), but can be steamed to obtain a light brown colour (caramel). After treating and drying, the strips are ready to be processed in several ways to make the final product:



### 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.



### Flexible

Strips are bonded to a flexible backing, creating a wide line pattern with the characteristic bamboo nodes clearly visible.



### **High Density®**

Strips are crushed, 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 or better to 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/mm<sup>2</sup>. High Density® is exceptionally hard: Brinell >9.5 kg/mm<sup>2</sup>.



### high stability

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



the benefits

### 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.



### CO<sub>2</sub> neutral

Official I CA and carbon footprint studies (ISO 14040/44) confirm that solid MOSO® Bamboo Products are CO<sub>2</sub> neutral over the full life cycle.



### endless resource

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



### healthy

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



### beautiful appearance

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



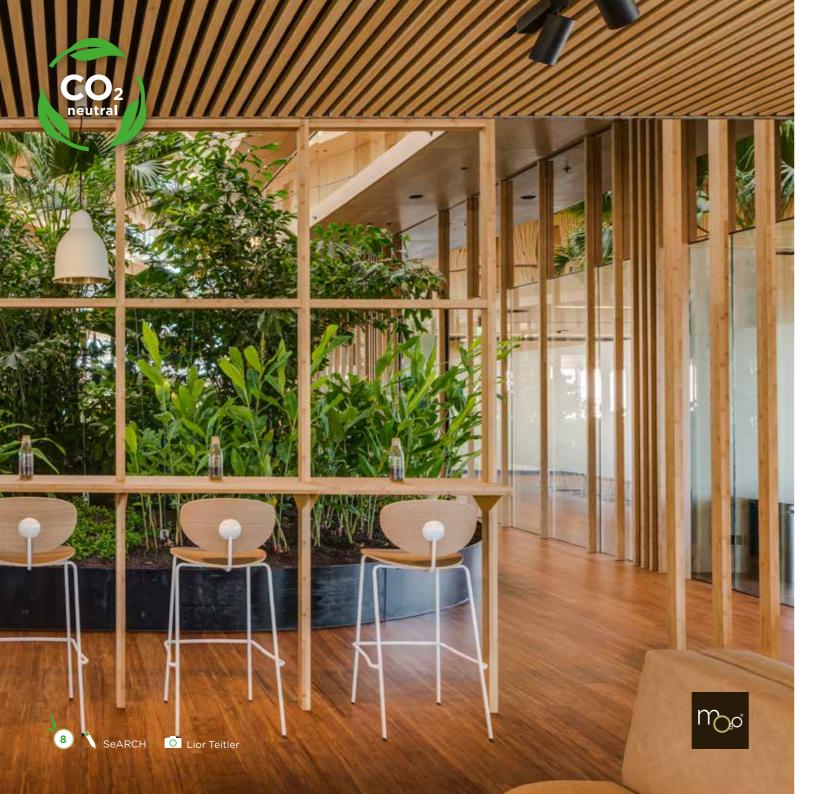
### fireproof

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



### 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.



# MOSO® 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**, **curtain walls**, **furniture**, **kitchens** and **doors**.

# MOSO® bamboo solid panels

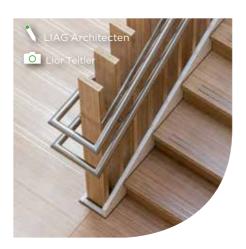
### multilayer boards

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

### MOSO® bamboo

# solid beams decorative & structural

Tested for structural applications. With a striking look for decorative applications.





### 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.





20 mm Plain Pressed Natural / Caramel 5-ply 2440 x 1220 mm



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



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



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



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



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





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



40 mm Plain / Side Pressed Natural / Caramel 5-ply 3000 / 4000 x 700 / 620 mm



### 20 mm Plain / Side Pressed High Density® Natural / Caramel / Tiger• 3-ply 2440 x 1220 mm



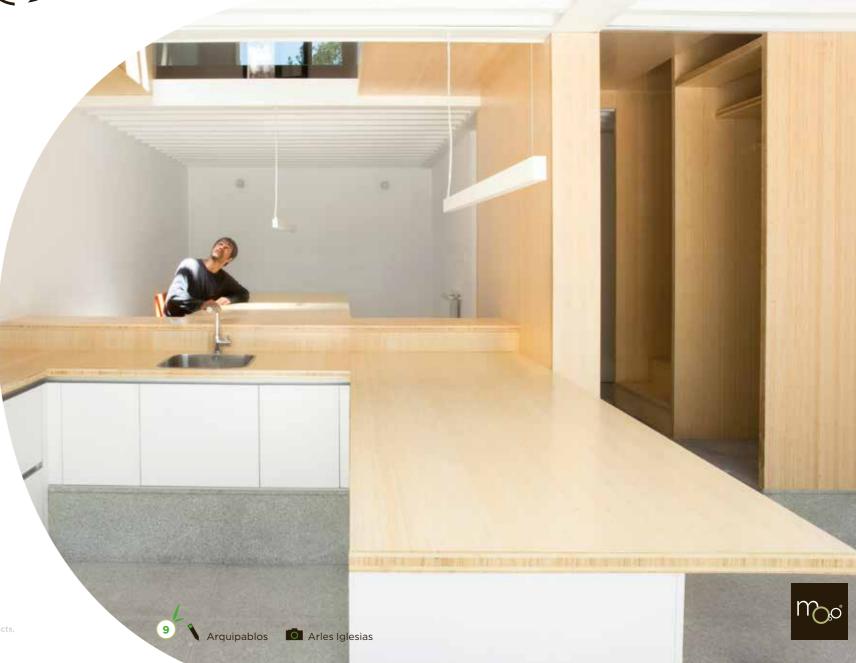


38 mm High Density\* Natural / Caramel 5-ply 2440 x 1220 mm





#### \* Mix of natural and caramel strips.



### decorative and structural applications

The high stability of MOSO® Bamboo Solid Beams allows for creative use in both decorative and structural applications. The beams are available in various dimensions, and are easy to process for specific requirements.

Custom made beams can be requested for your projects.



For details about technical properties of all products, please refer to pages 35-36.



DN-A Architects O BCL Timber Projects

www.moso.eu/solid-beams

# Azrieli Group (Gabi Oved) / Sher Architects (Zsili Gur)

# MOSO® Supra Collection

The MOSO® Bamboo 1-Ply Panels, Veneer and Flexbamboo 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

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

# MOSO® bamboo veneer

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

# Elad Gonen

# MOSO® flexbamboo

A flexible bamboo product consisting of plain bamboo strips connected with a fabric backing.



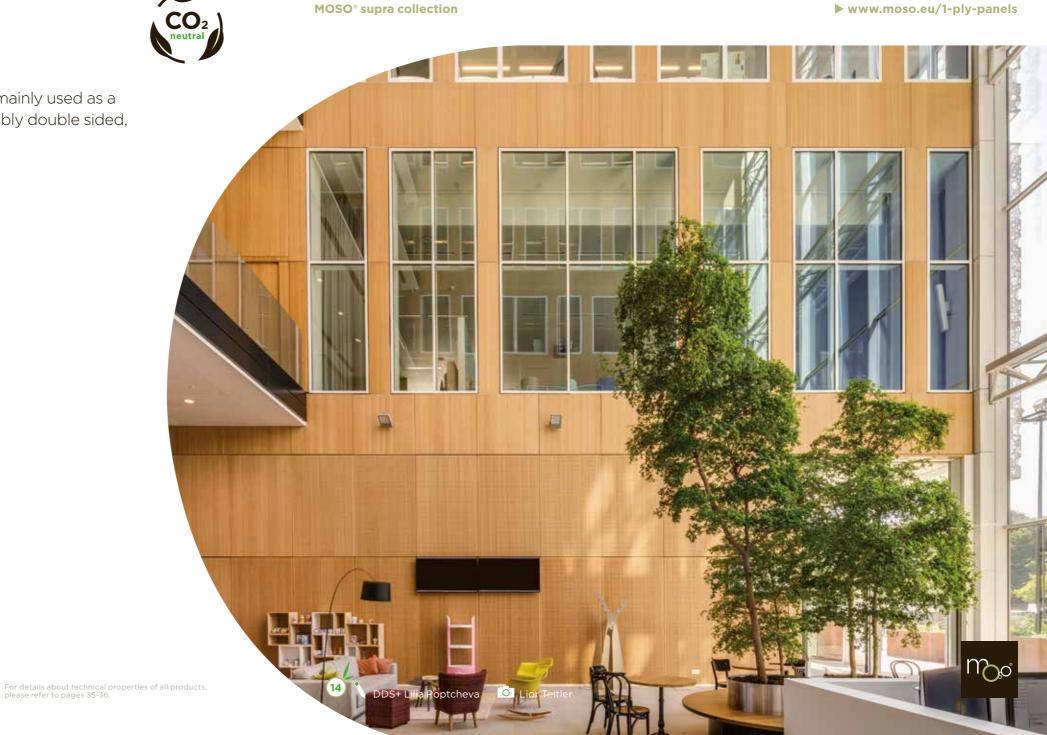


### decorative panelling solution

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).







### 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.



For details about technical properties of all products, please refer to pages 35-36.









▶ www.moso.eu/veneer

### flexible bamboo covering material

MOSO® Flexbamboo is a flexible bamboo product consisting of plain bamboo strips connected with a fabric backing. The product is ready to be placed on a carrier (e.g. MDF) to be used as an aesthetic covering material onto walls, ceilings, cabinets or furniture. MOSO® Flexbamboo is available in rolls and sheets.



2 mm solid strip 7 / 15 mm Natural unfinished or oiled roll 4.5 x 2.44 m



2 mm solid strip 7 / 15 mm Caramel unfinished or oiled sheet 1250/2000 x 2440/3000 mm

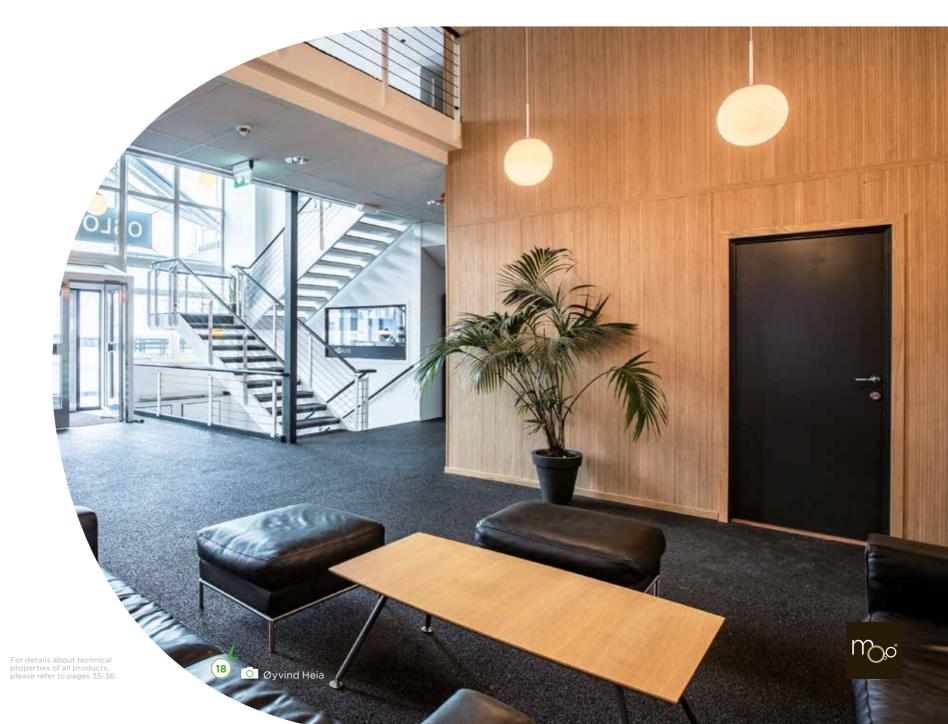


2 mm solid strip 7 / 15 mm Caramel unfinished or oiled roll 4.5 x 2.04/2.44 m



4 mm veneered strip 50 mm Natural / Caramel unfinished or oiled roll 15 x 2.04 / 2.44 m





# ladrid Internationa bamboo ceiling www.moso.eu/madrid-airport Rogers Stirk Harbo

# MOSO® custom made

One of MOSO's strengths is to translate specific market needs into bamboo products.

Together with various clients, MOSO has co-created unique bamboo solutions for different industries, including green building industry, automotive, furniture and kitchen industry, consumer goods, and livestock stables.

### **Madrid Airport**

### ceilingboard

"The ceiling consists of 100 mm wide planks of multi-layer MOSO® Bamboo Veneer. The visual qualities of this material imbue T4 with its very special character. Bamboo has the added benefit of being very sustainable."

Simon Smithson, lead architect of International Airport Madrid, partner at Rogers Stirk Harbour + Partners



### **REINÆRDT**

### doors

"With the MOSO® bamboo framewood in the doors, we can offer our customers not only a significantly better CO<sub>2</sub> balance, but also better quality thanks to increased stability and thus a long life expectancy."

Robert Haven purchase manager REINÆRDT



### **Doitrand Equestre**

### horse stable

"Quality, solidity and aesthetics are the three words that best describe MOSO® Bamboo Boards. Thanks to MOSO, we are sure to provide our customers an elegant

Nicolas Doitrand

and durable stable."



### sustainable

MOSO® Bamboo Products offer clear sustainability advantages and are even proven to be CO<sub>2</sub> neutral over the full life cycle! The inclusion of MOSO® Bamboo Products contributes to a higher LEED, BREEAM or Green Star certification score for green building projects. That's one of the reasons why you can find MOSO® Products in many sustainable reference projects all over the world.

### **▶** www.moso.eu/certifications



For more information about these references please go to page 32.



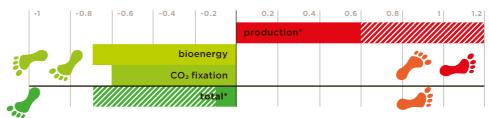




### carbon footprint

### MOSO® Bamboo Products: 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).

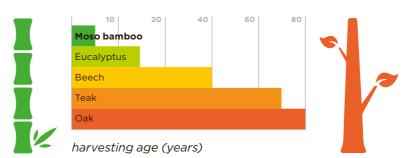


in CO2 eq/kg

### 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 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. In contrast to tropical hardwood, there is no deforestation taking place for the production of MOSO® Bamboo Products.





<sup>\*</sup> result depending on MOSO® product assessed.

### more information about inside references:

**Apartment Madrid Center** www.moso.eu/madrid Hotel Jakarta Amsterdam www.moso.eu/jakarta **Lexus Lounge at Brussels Airport** Princes Máxima Center Headquarter Caisse d'Épargne Headquarter ASICS EMEA www.moso.eu/asics Private Residence Asker Hotel Jakarta Amsterdam www.moso.eu/iakarta Private Residence Cercedilla www.moso.eu/cercedilla **Thames Tower London** 

▶ www.moso.eu/thames-tower

www.moso.eu/van-oord

Office Van Oord

Office Rishonim www.moso.eu/rishonim STC Campus Waalhaven

Office Docks Brussels

Guggenheim Museum Bilbao www.moso.eu/guggenheim

www.moso.eu/minima Midwives Clinic "Groei" Amsterdam ▶ www.moso.eu/groei

Minima Lighting Cape Town

Office Dagslys AS Oslo www.moso.eu/dagslys

CityLife Shopping District Milan www.moso.eu/citylife

AkzoNobel Center & Art Space www.moso.eu/akzonobel

IDOM Head Office Bilbao www.moso.eu/idom

> Fugro TechCenter building www.moso.eu/fugro

**Head Office Inbisa Barcelona** Hotel ZOKU Amsterdam

The Netherlands

get inspired

Spain

**BMW dashboard** 

Worlwide



**Bamboo Chair** The Netherlands



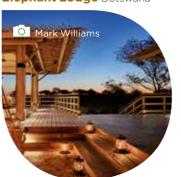


**MOSO**® Bamboo **Flooring** 

**Head Office Südwestmetall** 



**Belmond Safaris Savute Elephant Lodge** Botswana



**AkzoNobel Center & Art Space** The Netherlands



**BMW Solar Carport** South Africa O BMW



**Private Residence** 

Office Jumbo The Netherlands



**Schiphol Airport** 

The Netherlands



Argentina

**University Amsterdam** The Netherlands



**Office FAO United Nations** Roma Italy



**Longwave - landsurfing boards** Poland



**Hotel Hyatt Palace** The Netherlands



**SNCF - Railway Station Bordeaux** France

**MOSO®** 

Bamboo

Outdoor



MOSO Bamboo Unlimited

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



### about MOSO

MOSO International was founded in the Netherlands in 1997. Since then, MOSO® is leading in the development of innovative and sustainable bamboo products for interior and exterior applications and became market leader in Europe.

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, Milford (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 Panels, Beams, Veneer and Flexbamboo. 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. 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.







### MOSO® Bamboo Panels, Beams, Veneer & Flexbamboo

	Solid Collection													Supra Collection												
	Solid Panels									Solid Beams				1-Ply Pa	nels		Veneer						veneered strip			
																						roll sheet				
Dimensions (mm)																										
Thickness	7	16	19	20	20	25	30	38	38	40	40	55	60	72	100	3	4	5	0.6	0.6	0.6	0.6	0.5	2	2	4
Length	2440	2440	2440	2440	2440	2440	2440	2440	3100/ 4000	2440	3000 / 4000 <sup>1)</sup>	2440	2440	2440	2440	2440	2440	2440	2500	2500	2710	3100	2500	45000	1250/ 2000	15000
Width	1220	1220	1220	1220	1220	1220	1220	1220	700	1220	700 / 620 <sup>1)</sup>	55	120	120	120	1220	1220	1220	430	1250	430	430 / 1250	1250	2040/ 2440	2440/ 3000	2040 2440
Strip width																_								7/15	7/15	50
Style																										
Plain Pressed (PP)	-	•	-	•	•	•	•	-	-	•	•	-	-	-	-	•	-	•	•	•	•	-	-			
Side Pressed (SP)	•	•	•	•	-	•	•	-	-	•	•	•	•	•	•	•	-	•	•	•	•	•	-			
High Density® (HD)	-	-	-	•	-	-	-	•	•	-	-	-	•	•	•	-	•	-	-	-	-	-	•			
Colours																										
Natural	•	•	•	•	•	•	•	•	-	•	•	•	-	-	-	•	•	•	•	•	•	•	-	• 4)	-	•
Caramel	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tiger	-	-	-	• <sup>2)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
Finish																										
Unfinished	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Construction (mm)																										
Layer 1	2	3.5	19	4	4	4	5	3	3	4	4	18.3	20 (HD: 60)	6 (HD: 72)	20 (HD:100)	3	4	5								
Layer 2	3	9		12	4	17	20	6	6	8	6	18.3	20	20	20											
Layer 3	2	3.5		4	4	4	5	20	20	16	20	18.3	20	20	20											
Layer 4					4			6	6	8	6			20	20											
Layer 5					4			3	3	4	4			6	20											
Properties & certification																										
Hardness (Brinell kg/mm²)	>4	>4	>4	>4 (HD:>9.5)	>4	>4	>4	>9.5	>9.5	>4	>4	>4	>4 (HD:>9.5)	>4 (HD:>9.5)	>4 (HD:>9.5)	>4	>9.5	>4	_ 3)	_ 3)	_ 3)	_ 3)	_ 3)	>3	>3	>3
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	n.d.	n.d.	n.d.

FSC\* certification on request.

Dimensions 3000x700 mm or 4000x620 mm.

All products\* are available with 2) Tiger: Mix of natural and caramel strips, only available in High Density\*.



typically (expensive) scarce tropical hardwood is used. Unlike hardwood, the MOSO® bamboo solid beam is a very regular material in terms of stability and structure (no knots, no resins coming out) and is therefore easy to process.

Other dimensions are available on

MDF or chipboard). Most applications require sheets on a panel. pressing on both sides of the <sup>3</sup>The hardness of veneer dependent base, to prevent possible bending. The result is a

"sandwich panel".

bamboo is pressed, double To avoid cracks during handling, MOSO veneer sided, on a base (for example is backed with a thin, but strong cellulose fleece. ceilings, or furniture. This facilitates easy pressing of the veneer

on the substrate used.

aesthetical covering material on walls,

4) Only available in 2440 mm width.

\*) Flexbamboo not available with FSC® certification.

















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