

A large, circular image showing the interior of a modern building. The structure features a glass roof and walls, with bamboo slats used for structural elements and seating. The text is overlaid on the left side of the image.

# MOSO<sup>®</sup> Bamboo N-finity sustainable structural bamboo timbers

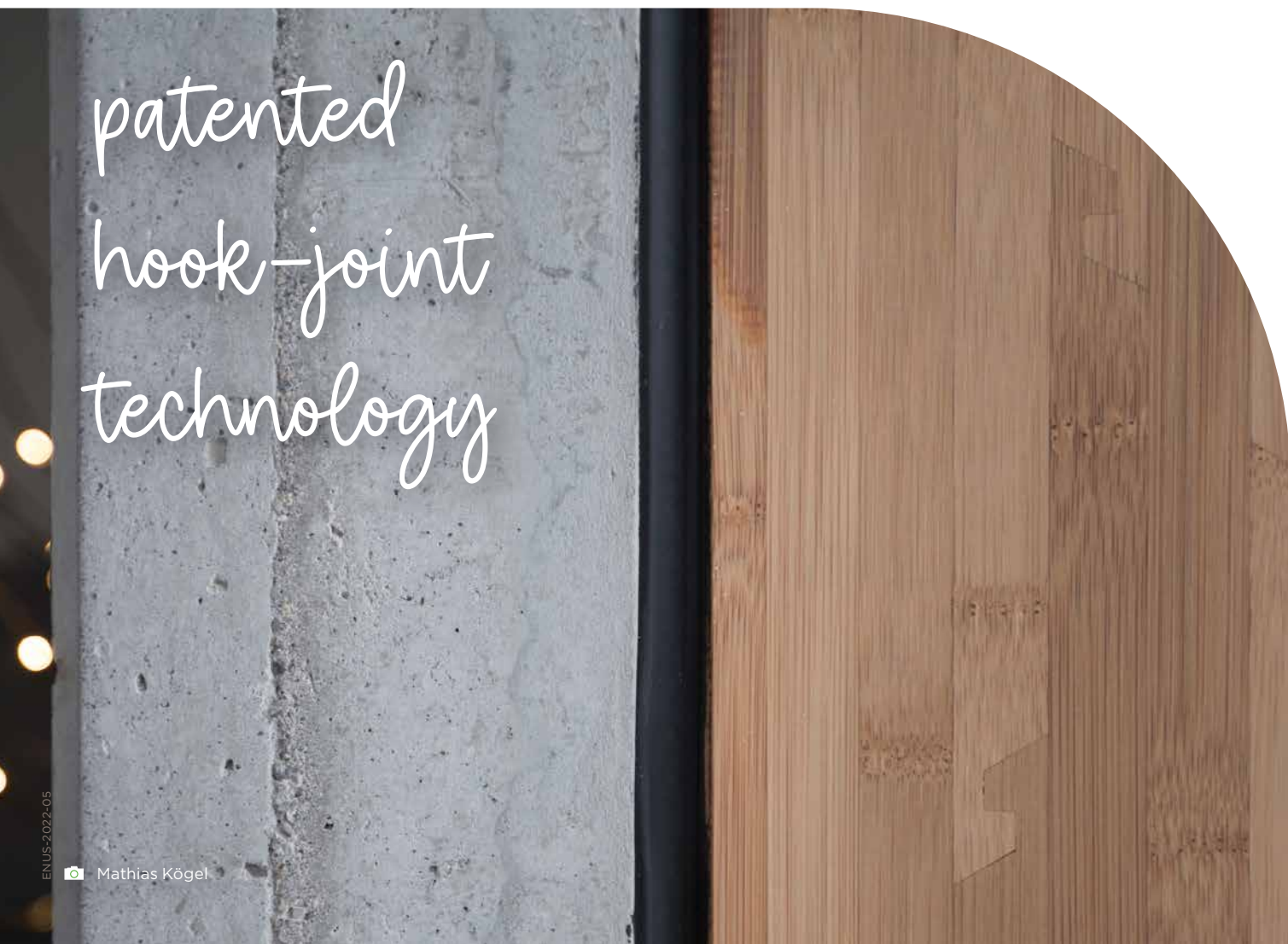
📷 Antoine Duhamel







bamboo:  
the fastest  
growing plant  
in the world



patented  
hook-joint  
technology



# MOSO®

## Bamboo N-finity

With Bamboo N-finity MOSO® has developed a **fast growing, sustainable structural bamboo timber**. MOSO® Bamboo N-finity timbers offer a sustainable alternative to aluminum, with better insulating properties. Compared with other wood species MOSO® Bamboo N-finity offers better technical characteristics. Meaning, similar load bearing and rigidity properties with smaller timber. The material is **less susceptible to moisture** which means it is more dimensionally stable for precision applications than wood. Bamboo N-finity is available up to **18' lengths**. Making it ideal for specialty use applications requiring long straight boards. Bamboo N-finity is ideal for applications that require **tight tolerance** and straight lumber like **window** and **door frames** or **curtain walls**.



„Bamboo is for us a sustainable material, which even in direct comparison to wood has the better properties in terms of sustainability, CO<sub>2</sub> bond, strength and resistance. Bamboo in the laminated version is ideally suited for construction components in curtain walls or element facades. Bamboo facades create a warm, pleasant atmosphere, especially in office areas. In combination with bamboo panels and veneers or even parquet, there are numerous design possibilities in interior design to tie in with this atmosphere.”

Martin Atzinger - archibrand®  
Munich, Germany

► [www.archibrand.com](http://www.archibrand.com)

# certificatied with **DIBt** General Building Inspectorate Approval

MOSO® Bamboo N-finity Beams for structural and non-structural elements in timber construction are certified with DIBT General Building Inspectorate Approval No. Z-9.1-895. 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. With the technical characteristics mentioned in the Approval, the Bamboo N-finity Beams can be installed as structural or non-structural elements in buildings that are described in the document:

- Areas where the use of hardwood is permitted in accordance with the standard DIN EN 1995-1-11 in conjunction with the German National Annex DIN EN 1995-1-1/NA2;
- Without chemical wood preservatives or fire protection agents but including joining materials commonly used in timber construction;
- Areas which are assigned to service class GK 0 in accordance with DIN 68800-13, but not unheated attics in accordance with the last indent of DIN 68800-1, Section 5.2.1;
- Only for supporting structures which are statically or quasi-statically loaded (see DIN EN 19904 and DIN EN 1991-1-15 in conjunction with DIN EN 1991-1-1/NA6).

DIBt General Building  
Inspectorate Approval

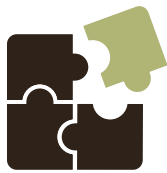


# advantages of MOSO® Bamboo N-finity indoor construction timber



## high stability

Due to the composition of individual strips and multiple pressed layers, MOSO® Bamboo N-finity Beams will shrink and swell less than solid wood species, providing more stability. Considerably higher stability than all other woods, making it possible to work very thin - with smaller dimensions than before.



## multiple solutions

MOSO® Bamboo N-finity Beams offer multiple solutions for glass facade systems, conservatories, partition walls and door and window frames, and many more indoor applications.



## hard & durable

Brinell hardness  $\pm 4 \text{ kg/mm}^2$ . The mechanical properties exceed those of the commonly used hardwoods.



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

Official LCA and carbon footprint studies (EN 15804) confirm that MOSO® Bamboo N-finity Beams are CO<sub>2</sub> neutral during the product lifespan\*. The use of bamboo contributes to a higher score in LEED-, BREEAM and Green Star certified projects.



## beautiful appearance

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



## renewable raw material

Made from Moso bamboo; one of the fastest growing plant on earth. Ready for harvest after 4-5 years (compared to up to 100 years for hardwood species) - no deforestation. Consisting of approx. 97% natural bamboo.

\*) This includes the CO<sub>2</sub> (biogenic carbon - EN 16449) stored in the product.

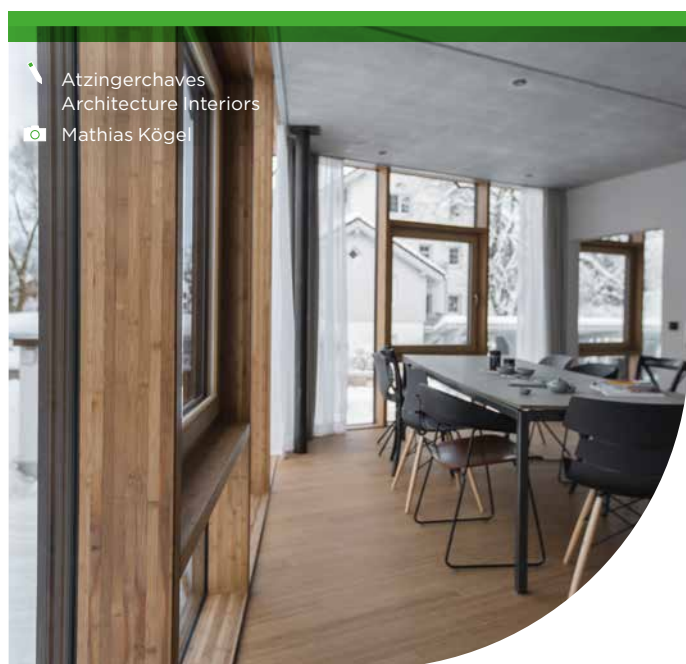






Viguer  
Daniel Osso Photographe

**Head Office Bridge Pont d'Issy Orange** (20 m<sup>3</sup>) Issy-les-Moulineaux, France



Atzingerchaves  
Architecture Interiors  
Mathias Kögel

**Private House in Immenstadt i. Allgäu**  
Immenstadt i. Allgäu, Germany

**Schindler Headquarter**  
(24,839 m<sup>2</sup>) Vélizy-Villacoublay, France



Architecture Studio  
Antoine Duhamel

# MOSO® Bamboo N-finity Timbers



MOSO® Bamboo N-finity Timbers are solid bamboo timbers constructed for non-structural and structural applications\*. The bamboo strips are connected with a special patented hook connection at the strip level, allowing Bamboo N-finity Timbers to be produced in a standard 18' length. Bamboo N-finity has been tested for its mechanical properties (bending, tension, compression, shear) and can be used as a structural beam. Bamboo N-finity Timbers are stocked in four standard dimensions and available for special order in sizes up to 4.5" x 8" x 40'. This product is suitable for interior use in curtain wall systems as well as for window- and door frames.

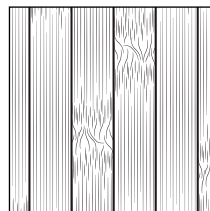
BL-IL957-580



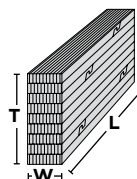
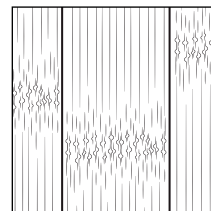
Product Code	Edges	Dimensions L x W x T
BL-IL955-580	Square	2" x 6 3/8" x 18'
BL-IL957-580	Square	2 3/8" x 6 3/8" x 18'
BL-IL456-580	Square	3 3/8" x 2 7/8" x 18'
BL-IL556-580	Square	3 3/8" x 3 1/4" x 18'

Samples are available in European dimensions

Side Pressed



Plain Pressed



## please note

- Attention: The surface of this product is fine-sawn (unfinished) and can be further processed at any time if a fine, smooth surface is required.
- Other dimensions can be produced custom made in sizes up to 4.5" x 8" x 40'.

\*) The structural performance depends on the specific design of the application. For structural use in buildings it always has to be certified by an independent, accredited test institute.

## technical characteristics and certifications

- Density: ± 43.56 lbs/cu.ft.
- Shrink/Swell: 0.14% per 1% change in Moisture Content
- Moisture content: 10% at 20°C and 65% relative humidity, 8% at 20°C and 50% relative humidity
- Brinell hardness: ± 5638 lbs/in<sup>2</sup> (average value - EN 1534)
- Reaction to fire: Class D-s2-d0 (EN 13501-1)
- Emission class: Class E1 (< 0.124 mg/m<sup>3</sup>) (EN 717-1)
- Modulus of Elasticity: ± 9721 N/mm<sup>2</sup> (SP), +/- 8866 N/mm<sup>2</sup> (PP) (EN 408)
- Bending strength: ± 56.7 N/mm<sup>2</sup> (SP), +/- 50.8 N/mm<sup>2</sup> (PP) (EN 408)
- DIBt (Deutsches Institut für Bautechnik) certification: Z-9.1-895
- Use Class: Class 1 (EN 335)
- Glue: D4 Water resistant
- CO<sub>2</sub> neutral: LCA report TU Delft (ISO 14040/44) ([www.moso-bamboo.com/lca](http://www.moso-bamboo.com/lca))
- Environmental Product Declaration - EPD (EN 15804) available at [www.moso-bamboo.com/epd](http://www.moso-bamboo.com/epd)
- Contribution LEED BD+C - v4: MR 1, MR 2, MR 3 (FSC\*)
- Contribution LEED MR 6, MR 7 (FSC\*)
- Contribution BREEAM: HEA 2, MAT 1, MAT 3 (FSC\*)



breeam



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**Hesselink Koffie**  
Winterswijk, the Netherlands



**Bridge Pont d'Issy Head Office Orange**  
Paris, France



More information about  
**MOSO® Bamboo N-finity Indoor**  
can be found at:  
[www.moso-bamboo.com/n-finity-indoor](http://www.moso-bamboo.com/n-finity-indoor)



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Mastering  
bamboo