SENTINEL HOLDING
INSTITUT

# SHI PRODUCT PASSPORT

**Find products. Certify buildings.**

SHI Product Passport No.:

**15475-10-1002**

# MOSO® Bambus Massivplatten und Furniere

Product group: Wood & Wood materials - Decking boards

Mastering bamboo

MOSO International B.V.
Adam Smithweg 2
1689 ZW Zwaag

## Product qualities:

- SHI Product Assessment 2024
- QNG Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- BNB-BN NEUBAU V2015
- EU taxonomy
- BREEAM DE NEUBAU 2018

CERTIFIED SUSTAINABLE PRODUCT
SHI PRODUCT PASSPORT
SENTINEL HOLDING INSTITUT
www.sentinel-holding.eu

Köttner

**Helmut Köttner**
Scientific Director
Freiburg, 02 February 2026

Product:
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# Contents



The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SENTINEL HOLDING
INSTITUT

Product:
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# SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

| Criteria | Product category | Harmful substance limit | Assessment |
|---|---|---|---|
| SHI Product Assessment | Wood-based floor coverings | TVOC ≤ 300 µg/m$^3$<br>Formaldehyd ≤ 36 µg/m$^3$ | Indoor Air Quality Certified |
| **Valid untill: 18 July 2027** | | | |

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Mastering bamboo

# QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

| Criteria | Pos. / product group | Considered substances | QNG assessment |
|---|---|---|---|
| 3.1.3 Schadstoffvermeidung in Baumaterialien | 9.2 Wood-based materials (blockboard, fibreboard, veneer, and solid wood panels) | Formaldehyde / VOC / emissions / hazardous substances / SVHC: boron compounds | QNG ready |
| **Verification:** Herstellererklärung vom 22.08.2025 | | | |

| Criteria | Assessment |
|---|---|
| ANF2-WG1 Nachhaltige Materialgewinnung | May positively contribute to the overall building score |
| **Verification:** FSC zertifiziert | |

Product:
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SHI Product Passport no.:
**15475-10-1002**

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# DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

## General

| Criteria | Assessment |
|---|---|
| ECO1.1 Life cycle cost (*) | May positively contribute to the overall building score |
| **Verification:** Use Class 1 so it will last long. Brinellhärte: ≥ 4 kg/mm2 (BL/HL), ≥ 9,5 kg/mm2 (DT) (EN 1534) | |

| Criteria | Assessment |
|---|---|
| ECO2.6 Climate resilience (*) | May positively contribute to the overall building score |
| **Verification:** Wärmeleitfähigkeit: 0,17 W/mK (BL/HL), 0,19 W/mK (DT) (EN 12667) Wärmedurchlasswiderstand: 0,0882 m2K/W (BL/HL), 0,0784 m2K/W (DT) (EN 12667) | |

| Criteria | Assessment |
|---|---|
| ENV1.1 Climate action and energy (*) | May positively contribute to the overall building score |
| **Verification:** Emits less CO2 than conventional materials such as PVC, WPC, metals. Increased durability: expected life span 30+ years. Brinellhärte: ≥ 4 kg/mm2 (BL/HL), ≥ 9,5 kg/mm2 (DT) (EN 1534) | |

| Criteria | Quality level |
|---|---|
| ENV1.3 Responsible resource extraction | May positively contribute to the overall building score |
| **Verification:** FSC | |

| Criteria | Assessment |
|---|---|
| SOC1.3 Sound insulation and acoustic comfort (*) | May positively contribute to the overall building score |
| **Verification:** Can have acoustic properties | |

| Criteria | Assessment |
|---|---|
| SOC1.4 Visual comfort (*) | May positively contribute to the overall building score |
| **Verification:** Aids to the biophillic design of a buidling | |

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition) | 47 Coated and uncoated wood-based materials: particle board, blockboard, veneer panels, fibreboard | Formaldehyde emissions | Quality level 4 |
| **Verification:** Für Furnier: Prüfbericht des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) | | | |

| Criteria | Assessment |
|---|---|
| SOC1.2 Indoor air quality (*) | May positively contribute to the overall building score |

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 29.05.2025 (4th edition) | Coated and uncoated wood-based materials | VVOC, VOC, SVOC emissions | Quality level 4 |
| **Verification:** Für Furnier: Prüfbericht des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) | | | |

## Anwendung als Wand- und Deckenverkleidung

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition) | 47d Products made of wood-based materials | VVOC, VOC, SVOC emissions | Quality level 4 |
| **Verification:** Prüfberichte des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) und 17.02.2023 (Nr. L 7288 FM) | | | |

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 29.05.2025 (4th edition) | 47d Products made of wood-based materials | VVOC, VOC, SVOC emissions | Quality level 4 |
| **Verification:** Prüfberichte des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) und 17.02.2023 (Nr. L 7288 FM) | | | |

Product:
**MOSO® Bambus Massivplatten und Furniere**

SHI Product Passport no.:
**15475-10-1002**

Mastering bamboo

# DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact | 47a Industrially manufactured products | Formaldehyde | Quality level 4 |
| **Verification:** Für Furnier: Prüfbericht des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) | | | |

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SHI Product Passport no.:
**15475-10-1002**

Mastering bamboo

# BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

| Criteria | Pos. / product type | Considered substance group | Quality level |
|---|---|---|---|
| 1.1.6 Risiken für die lokale Umwelt | 41 Wood-based panels according to EN 13986, such as chipboard, plywood, fiberboard, medium-density fiberboard (MDF), plywood, solid wood panels, and OSB panels, as well as veneer plywood | VOC / formaldehyde / hazardous substances | Quality level 4 |
| **Verification:** Prüfberichte des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) und 17.02.2023 (Nr. L 7288 FM). Herstellererklärung vom 22.08.2025 | | | |

| Criteria | Assessment |
|---|---|
| 1.1.7 Nachhaltige Materialgewinnung | May positively contribute to the overall building score |
| **Verification:** FSC zertifiziert | |

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**15475-10-1002**

# EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

| Criteria | Product type | Considered substances | Assessment |
|---|---|---|---|
| DNSH - Pollution prevention and control | | Substances according to Annex C | EU taxonomy compliant |
| **Verification:** Herstellererklärung vom 22.08.2025 | | | |

Product:
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**15475-10-1002**

# BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

| Criteria | Product category | Considered substances | Quality level |
|---|---|---|---|
| Hea 02 Indoor Air Quality | Wood-based products | Emissions: Formaldehyde, TVOC, TSVOC, carcinogens | Exemplary quality |
| **Verification:** Prüfberichte des Bremer Umweltinstituts vom 22.11.2024 (Nr. M 1880 FM) und 17.02.2023 (Nr. L 7288 FM) | | | |

Product:
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Mastering bamboo

# Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

The Forest Stewardship Council (FSC) label is awarded to products made wholly or partly from wood sourced from responsibly managed and controlled forestry. Health-related aspects of the final product are not part of the FSC assessment.

This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, “Avoidance of Harmful Substances in Building Materials.” The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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# Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

**Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte**

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## Publisher

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info@sentinel-holding.eu
www.sentinel-holding.eu

# CERTIFICATE

**CERTIFICATION CODE: CU-COC-810267**

Field of attention:

**FSC® Chain of Custody (COC)**

Issued to:

**MOSO International B.V.**
**Zwaag, NETHERLANDS**
**Project in: NETHERLANDS**

Standard:

**FSC-STD-40-003 V2-1 CoC Certification of Multiple Sites;, FSC-STD-40-004 V3-1 Chain of Custody Certification, FSC-STD-50-001 V2-1 Requirements for use of the FSC trademarks by Certificate Holders;**

**Valid until: 23 December 2028**

The validity of this certificate shall be verified on http://info.fsc.org/

Control Union Certifications declares to have inspected the unit(s), and/or products of the above mentioned certificate holder, and have found them in accordance with the standards mentioned above.

This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate. A full list of product groups covered by the certificate can be found on the FSC database of registered certificates (http://info.fsc.org/).

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.
This certificate remains in force until further notice, provided that the participant continues to meet the conditions as laid down in the client contract with Control Union Certifications B.V. and verified in inspections by Control Union Certifications B.V.

Date of certification:
24 December 2023
Place and date of issue:
Zwolle, 16 December 2024

CERTIFICATE No: C 810267CU-COC-01.2024

FSC
www.fsc.org
FSC® A000507

The mark of responsible forestry

Declared by:

On behalf of the Managing Director

Mevrouw I.J.H. Dijkman

Certifier
Control Union Certifications B.V.
Meeuwenlaan 4-6
8011 BZ ZWOLLE
The Netherlands
http://www.controlunion.com
tel.: +31(0)38-4260100

**Annex to**
**CERTIFICATION CODE: CU-COC-810267**
**FSC® Chain of Custody (COC)**

MOSO International B.V.
Adam Smithweg 2
1689 ZW Zwaag
Nederland

**This certificate gives the right, in accordance with the agreements in the licencee-contract, on the basis of the accreditation of CU by the Forest Stewardship Council (FSC), to use the FSC logo for the unit(s), process(es) and/or product(s) mentioned below. Use of the FSC logo on (trade) products is only allowed for products mentioned under "products" in conformity with the category.**

**This certificate and its copies or reproductions shall be returned to CU immediately on request.**
**More information about the client and/or products and/or units can be obtained at the website of CU (www.controlunion.com/certifications) or by contacting CU.**

**This certificate, referred to in the client contract as scope certificate, covers the following product(s), which comply(ies) with the latest version of the CU Forestry Standards:**

**Certified products**

| Product no. | Name of product | Category | Processing unit(s) |
|---|---|---|---|
| P 064121 | N5.4 Bamboo plywood | FSC 100% | PRC 010770, PRC 010771, PRC 010774, PRC 038595, PRC 095073, PRC 101227 |
| P 064122 | N5.5 Bamboo flooring | FSC 100%, FSC Mix | PRC 010770, PRC 010771, PRC 010774, PRC 038595, PRC 095073, PRC 101227 |
| P 064123 | N5.6 Bamboo furniture | FSC 100% | PRC 010770, PRC 010771, PRC 010774, PRC 038595, PRC 095073, PRC 101227 |
| P 064124 | N5.7 Bamboo household articles and wickerwork | FSC 100% | PRC 010770, PRC 010771, PRC 010774, PRC 038595, PRC 095073, PRC 101227 |
| P 063786 | W7 Veneer | FSC 100%, FSC Mix | PRC 010770, PRC 010771, PRC 010774, PRC 038595, PRC 095073, PRC 101227 |

This certificate covers the following Processing Unit(s), which comply(ies) with the latest version of the CU Forestry Standards:

**Processing unit(s)**

| Unit no. | Name of unit | Unit ref. | Address | Processes |
|---|---|---|---|---|
| PRC 010771 | MVP International B.V. | D-02 | Adam Smithweg 2<br>Zwaag<br>Nederland | Broker/trader without physical possession |
| PRC 010774 | MOSO Europe SLU | D-03 | C/ Pau Claris, 83 – Pral 2ª<br>Barcelona, Andalusia<br>SPAIN | Broker/trader without physical possession |
| PRC 038595 | Anji Moso Bamboo Products Company Ltd | D-05 | No.2 Building, Tangpu Industrial Zone. Anji Economic Development Area<br>Huzhou City, Zhejiang Sheng<br>CHINA | Broker/trader without physical possession |
| PRC 095073 | MOSO Italia SRL | D-06 | Via A. Locatelli, 86<br>Biassono (MB), Lombardia<br>ITALY | Broker/trader without physical possession |
| PRC 101227 | Shaoxing MOSO Bamboo Products Company LTD | D-07 | Room 401, Building 1, No.125, Wolong Road<br>Shaoxing, Zhejiang Sheng<br>CHINA | Broker/trader without physical possession |

**Annex to**
**CERTIFICATION CODE: CU-COC-810267**
**FSC® Chain of Custody (COC)**

| Unit no. | Name of unit | Unit ref. | Address | Processes |
|---|---|---|---|---|
| PRC 010770 | MOSO International B.V. | ICS | Adam Smithweg 2<br>Zwaag, Noord-Holland<br>Nederland | Broker/trader with physical possession |

This certificate including the annex remains property of Control Union Certifications B.V. and can be withdrawn in case of terminations as mentioned in the licensee contract, or in case changes or deviations of the above mentioned data occur. The licensee is obliged to inform Control Union Certifications B.V. immediately of any changes in the above mentioned data. Only an original and signed certificate with accompanying attachments is valid.

Date of certification:
24 December 2023

Place and date of issue:
Zwolle, 16 December 2024

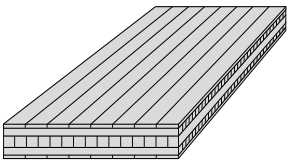
Authenticated by

On behalf of the Managing Director
Mevrouw I.J.H. Dijkman
Certifier

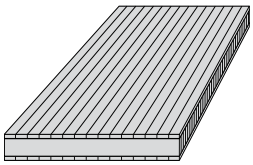
**This certificate cannot be used as guarantee certificate for delivered goods!**

# MOSO® Bambus Massivplatte

Die MOSO® Bambus Massivplatte ist ein visuell ansprechendes Plattenprodukt, das aus mehreren Schichten Bambus besteht, die in vielen unterschiedlichen Ausführungen hinsichtlich Größe, Stärke, Stil und Farbe erhältlich sind. Diese Bambusplatten sind besonders interessant für Anwendungen, bei denen die Seiten der Platten sichtbar bleiben wie z.B. Treppenstufen, Möbel und Küchenarbeitsplatten.



Breitlamelle



Hochkantlamelle

Breitlamelle
Naturhell/Gedämpft

Hochkantlamelle
Naturhell/Gedämpft

| Naturhell | Gedämpft | Optik | Stärke (mm) | Aufbau (mm) | Abmessungen (mm) |
|---|---|---|---|---|---|
| BP-MP1230 | BP-MP1280 | Breitlamelle | 16 | 3,5-9-3,5 | 2440x1220 |
| BP-MP1210 | BP-MP1260 | Breitlamelle | 20 | 4-12-4 | 2440x1220 |
| BP-5P131 | BP-5P181 | Breitlamelle | 20 | 5x4 | 2440x1220 |
| BP-MP1215 | BP-MP1265 | Breitlamelle | 25 | 4-17-4 | 2440x1220 |
| BP-MP1240 | BP-MP1290 | Breitlamelle | 30 | 5-20-5 | 2440x1220 |
| BP-5P105 | BP-5P155 | Breitlamelle | 40 | 4-8-16-8-4 | 2440x1220 |
| BP-5P140 | BP-5P190 | Breitlamelle | 40 | 4-6-20-6-4 | 3000x700 |
| BP-5P146 | BP-5P196 | Breitlamelle | 40 | 4-6-20-6-4 | 4000x700 |
| BP-MP400 | BP-MP450 | Hochkantlamelle | 7 | 2-3-2 | 2440x1220 |
| BP-MP1430 | BP-MP1480 | Hochkantlamelle | 16 | 3,5-9-3,5 | 2440x1220 |
| BP-SP800 | BP-SP850 | Hochkantlamelle | 19 | 1x19 | 2440x1220 |
| BP-MP1410 | BP-MP1460 | Hochkantlamelle | 20 | 4-12-4 | 2440x1220 |
| BP-MP1415 | BP-MP1465 | Hochkantlamelle | 25 | 4-17-4 | 2440x1220 |
| BP-MP1440 | BP-MP1490 | Hochkantlamelle | 30 | 5-20-5 | 2440x1220 |
| BP-5P205 | BP-5P255 | Hochkantlamelle | 40 | 4-8-16-8-4 | 2440x1220 |
| BP-5P240 | BP-5P290 | Hochkantlamelle | 40 | 4-6-20-6-4 | 3000x700 |
| BP-5P246 | BP-5P296 | Hochkantlamelle | 40 | 4-6-20-6-4 | 4000x700 |

## Kurzfassung Bearbeitungsanweisung

- Ideales Raumklima: Raumtemperatur 18-21°Cund Luftfeuchte 40-65%.
- Die MOSO® Platten haben ein Übermaß (Länge und Breite) und sind nicht kalibriert
- Die MOSO® Platten haben eine A- und B-Seite. Die Rückseite (B) enthält im Allgemeinen mehr Farbunterschiede als die Sichtseite (A). Auch können auf der Rückseite kleine Fugen zwischen den Bambuslamellen sichtbar sein. Die Rückseite ist mit einem Bleistiftstrich oder Aufkleber markiert.
- Das Schneiden der Platte in kleinere Stücke kann zu einer gewissen Biegung führen.
- Massive Mehrschichtplatten sollten gut befestigt/gestützt werden, um ein Verbiegen zu vermeiden.
- Die inneren Schichten der MOSO® Massivplatten bestehen aus mehreren, getrennten Quersegmenten, wodurch kleine Lücken in diesen Schichten entstehen. Diese Konstruktion sorgt für eine optimale Stabilität des Produkts. Die Hohlräume sollten bei der Weiterverarbeitung gefüllt werden.
- Vollversion auf ▶ **www.moso-bamboo.com**/massivplatte

## Technische Daten und Zertifikate

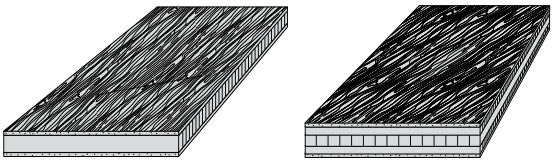
- Dichte (Deckschicht): +/- 700 kg/m³
- Deckschicht Dicke / Nutzschicht: 3,5-5 mm [1] (BL/HL)
- Differenzielles Quellmaß Bambus: 0,14% pro 1% Holzfeuchteveränderung
- Feuchtigkeitsgehalt: 10% bei 20°C und 65% relativer Luftfeuchte
  8% bei 20°C und 50% relativer Luftfeuchte
- Brinellhärte: ≥ 4 kg/mm²
- Brandverhalten: Klasse D-s1-d0 [2] (BL/HL) (EN 13501-1)
- Emissions-Klasse: Klasse E1 (< 0,124 mg/m³, EN 717-1) / Klasse E0 (< 0,025 mg/m³) [3]
- Elastizitätsmodul: 4530 N/mm² (40mm) [4] (Mittelwert - EN 789)
- Leim: D3-wasserbeständig
- $CO_2$-neutral: LCA Bericht TU Delft (ISO 14040/44) (www.moso-bamboo.com/lca)
- Environmental Product Declaration - EPD (EN 15804) verfügbar auf www.moso.eu/epd
- FSC®: FSC®-zertifizierte Produkte erhältlich auf Anfrage.
- Beitrag LEED BD+C - v4: MR1, MR2, MR3 (FSC®), EQ2
  v2009: MR 6, MR 7 (FSC®), IEQ 4.4 (wenn mit E0 Klebstoffe produziert)
- Beitrag BREEAM: HEA 2, MAT 1, MAT 3 (FSC®)

[1] Abhängig von der Stärke der Platten.
[2] Geprüft auf 40 mm Dicke, als Platte, mit Lüftungsraum hinter den Platten.
[3] Auf Anfrage erhältlich - Die E0-Klasse ist eine inoffizielle Formaldehyd-Emissionsklasse, wird aber häufig verwendet, um anzuzeigen, dass das Produkt eine sehr geringe Emission, eine nicht nachweisbare Emission aufweist oder mit formaldehydfreien Klebstoffen hergestellt wird. E0-Produkte qualifizieren sich automatisch für die offizielle E1-Klasse nach EN 717-1.
[4] Elastizitätsmodul von anderen Platten auf Anfrage.

D-s1-d0 · E1 HCHO · $CO_2$ NEUTRAL · EPD EN15804 · LEED · breeam · FSC www.fsc.org · The mark of responsible forestry FSC® C002063

# MOSO® Bambus Massivplatte

MOSO® Bambus Massivplatten im Density®-Stil verfügen über eine Oberschicht aus komprimierten Bambusstreifen. Dies macht die Bambus Massivplatten sehr hart und verschleißfest und damit interessant für anspruchsvolle Anwendungen in Bezug auf Anwendung oder Design.



Density®
Naturhell/Gedämpft

Density®
Tiger

*) Mischung naturhell und gedämpfte Bambusstreifen, **) Die Außenschichten dieser Density® Platten sind mit Keilzink-Verbindung versehen.

| Naturhell | Gedämpft | Tiger* | Optik | Stärke (mm) | Aufbau (mm) | Abmessungen (mm) |
|---|---|---|---|---|---|---|
| BP-DT1000 | BP-DT1050 | BP-DT1050-NP | Density® (Deckschichten) | 20 | 4-12-4 | 2440x1220 |
| BP-DT5000 | BP-DT5050 | | Density® (Deckschichten) | 38 | 3-6-20-6-3 | 2440x1220 |
| | BP-DT6050** | | Density® (Deckschichten) | 38 | 3-6-20-6-3 | 3100x700 |
| | BP-DT6060** | | Density® (Deckschichten) | 38 | 3-6-20-6-3 | 4000x700 |

## Kurzfassung Bearbeitungsanweisung

- Ideales Raumklima: Raumtemperatur 18-21°Cund Luftfeuchte 40-65%.
- Die MOSO® Platten haben ein Übermaß (Länge und Breite) und sind nicht kalibriert
- Die MOSO® Platten haben eine A- und B-Seite. Die Rückseite (B) enthält im Allgemeinen mehr Farbunterschiede als die Sichtseite (A). Auch können auf der Rückseite kleine Fugen zwischen den Bambuslamellen sichtbar sein. Die Rückseite ist mit einem Bleistiftstrich oder Aufkleber markiert.
- Das Schneiden der Platte in kleinere Stücke kann zu einer gewissen Biegung führen.
- Massive Mehrschichtplatten sollten gut befestigt/gestützt werden, um ein Verbiegen zu vermeiden.
- Die inneren Schichten der MOSO® Massivplatten bestehen aus mehreren, getrennten Quersegmente, wodurch kleine Lücken in diesen Schichten entstehen. Diese Konstruktion wird gemacht, um die Stabilität zu optimieren. Die Hohlräume sollten bei der Weiterverarbeitung gefüllt werden.
- Vollversion auf ▶ **www.moso-bamboo.com**/massivplatte

## Technische Daten und Zertifikate

- Dichte (Deckschicht): +/- 1050 kg/m³
- Deckschicht Dicke / Nutzschicht: 3-4 mm [1)]
- Brinellhärte: ≥ 9,5 kg/mm² (EN 1534)
- Emissions-Klasse: Klasse E1 (< 0,124 mg/m³, EN 717-1) / Klasse E0 (< 0,025 mg/m³) [2)]
- Elastizitätsmodul: 4318 N/mm² (38 mm) [3)] (Mittelwert - EN 789)
- Leim: D3-wasserbeständig
- $CO_2$-neutral: LCA Bericht TU Delft (ISO 14040/44) (www.moso-bamboo.com/lca)
- Environmental Product Declaration - EPD (EN 15804) verfügbar auf www.moso-bamboo.com/epd
- FSC®: FSC®-zertifizierte Produkte erhältlich auf Anfrage.
- Beitrag LEED BD+C - v4: MR1, MR2, MR3 (FSC®), EQ2 v2009: MR 6, MR 7 (FSC®), IEQ 4.4 (wenn mit E0 Klebstoffe produziert)
- Beitrag BREEAM: HEA 2, MAT 1, MAT 3 (FSC®)

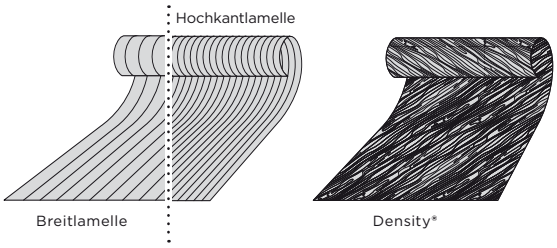
[1)] Abhängig von der Stärke der Platten.
[2)] Auf Anfrage erhältlich - Die E0-Klasse ist eine inoffizielle Formaldehyd-Emissionsklasse, wird aber häufig verwendet, um anzuzeigen, dass das Produkt eine sehr geringe Emission, eine nicht nachweisbare Emission aufweist oder mit formaldehydfreien Klebstoffen hergestellt wird. E0-Produkte qualifizieren sich automatisch für die offizielle E1-Klasse nach EN 717-1.[4)] Elastizitätsmodul von anderen Platten auf Anfrage.
[3)] Elastizitätsmodul von anderen Platten auf Anfrage.

D-s1-d0 · E1 HCHO · $CO_2$ NEUTRAL · EPD EN15804 · LEED · breeam · FSC www.fsc.org

The mark of responsible forestry
FSC® C002063

# MOSO® Bambus Messerfurnier

MOSO® Bambus Messerfurnier ist ein qualitativ hochwertiges Furnier, das durch das Schneiden von Platten aus laminierten Blöcken aus Bambusstreifen hergestellt wird. Um Risse während der Weiterverarbeitung zu vermeiden, wird das MOSO® Messerfurnier mit einem dünnen, aber starken Zellulosevlies kaschiert. Das ermöglicht ein einfaches Aufbringen des Furniers auf eine Trägerplatte für eine Vielzahl von Anwendungen im Baubereich und der Innenraumgestaltung. MOSO® Messerfurnier gibt es in unterschiedlichen Größen, Farben und Ausführungen und kann mit Formaldehyd-freiem Klebstoff (E0 Norm) und FSC®-Zertifikat geliefert werden. MOSO® Messerfurnier wird hauptsächlich in A-Sortierung (regelmäßig in der Farbe) angeboten und kann mit einem Minimum an Verschnitt und Ausschuss verarbeitet werden.





*) High Density® Furnier enthält Keilzinken

| Ecru | Gedämpft | Optik | Stärke (mm) | Abmessungen (mm) |
|---|---|---|---|---|
| | BV-PPC150 | Breitlamelle | 0,6 | 2500x430 |
| | BV-PPC154 | Breitlamelle | 0,6 | 2500x1250 |
| BV-SPE200 | BV-SPC150 | Hochkantlamelle | 0,6 | 2500x430 |
| BV-SPE204 | BV-SPC154 | Hochkantlamelle | 0,6 | 2500x1250 |
| BV-SPE245 | BV-SPC195 | Hochkantlamelle | 0,6 | 3100x430 |
| BV-SPE246 | BV-SPC196 | Hochkantlamelle | 0,6 | 3100x1250 |
| | BV-DT154* | Density® | 0.5 | 2500x1250 |

## Verwendungsanweisung

MOSO® Messerfurnier wird normalerweise zu breiten Blättern längs zusammengesetzt und auf Trägerpaneele (z.B. Spanplatte, Multiplex oder MDF), doppelseitig, verleimt. Die Kaschierung ist ein Zellulosevlies, das mit einem D3 wasserfesten PVAC-Kleber verleimt wird. Das Zellulosevlies verträgt kurz Temperaturen von über 220 Grad Celsius, z.B. beim Zusammensetzen. Falls die Furnierverpressung unter hohem Druck und hoher Temperatur erfolgt, ist eine wesentlich längere Abkühlzeit erforderlich bevor die abgekühlten (max 60°C) Platten gestapelt werden können. Für die Verleimung des kaschierten Furniers empfehlen wir eine Probeverleimung durchzuführen, um die genaue Abstimmung zwischen Presszeit, Temperatur und Druck zu finden. Die Standardstärke des Furniers beträgt 0,6 mm: 0,5 mm Bambus und 0,1 mm Kaschierungsmaterial. Falls das Furnier geschliffen wird, sollte die minimale Endstärke nicht weniger als (exkl. Kaschierung) 0,2 mm betragen.

Vollversion auf ▶ **www.moso-bamboo.com**/messerfurnier

## Technische Daten und Zertifikate

- Dichte (Produkt): +/- 700 kg/m³
- Deckschicht Dicke / Nutzschicht: 0,6mm
- Differenzielles Quellmaß: 0,14% pro 1% Holzfeuchteveränderung
- Feuchtigkeitsgehalt: 10% bei 20°C und 65% relativer Luftfeuchte
  8% bei 20°C und 50% relativer Luftfeuchte
- Durchschnittliche Brinellhärte: abhängig vom verwendeten Substrat (EN 1534)
- Emissions-Klasse: Klasse E1 (< 0,124 mg/m³, EN 717-1) / Klasse E0 (< 0,025 mg/m³) [1)]
- Klasse E1 (<0,100 ppm) / Klasse E0 (<0,020 ppm) [1)] (ASTM E 1333-96)
- Gebrauchsklasse: Klasse 1 (EN 335)
- Leim: D3-wasserbeständig
- Kaschierung: Nicht gesponnenes Zellulosevlies
- $CO_2$-neutral: LCA Bericht TU Delft (ISO 14040/44) (www.moso-bamboo.com/lca)
- Environmental Product Declaration - EPD (EN 15804) verfügbar auf www.moso-bamboo.com/epd
- FSC®: FSC®-zertifizierte Produkte erhältlich auf Anfrage.
- Beitrag LEED BD+C - v4: MR1, MR2, MR3 (FSC®), EQ 2
  v2009: MR 6, MR 7 (FSC®), IEQ 4.4 (wenn mit E0 Klebstoffe produziert)
- Beitrag BREEAM: HEA 2, MAT 1, MAT 3 (FSC®), MAT 5 (DT)

[1)] Auf Anfrage erhältlich - Die E0 Klasse wird genutzt um Produkte verleimt mit formaldehydfreier Leime, und Produkte mit ein sehr niedrigen oder nicht messbaren Emission zu kennzeichnen, ohne dass es eine offizielle Klasse gibt. E0 Produkte sind automatisch qualifiziert als E1 Produkte laut EN 717-1.

DE-202106

E1 HCHO · $CO_2$ NEUTRAL · EPD EN15804 · breeam · FSC www.fsc.org · The mark of responsible forestry FSC® C002063

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# SAFETY DATA SHEET

MOSO BAMBOO SOLID PANEL (HD)

## 1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MOSO® Bamboo Solid Panel
High Density version

Supplier:
Moso International BV
Adam Smithweg 2
NL-1689 ZW Zwaag
The Netherlands

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www.moso.eu

Description: The Moso bamboo products are composed of bamboo strips and possible other materials, bonded with adhesives from third party manufacturers.

## 2) HAZARDS IDENTIFICATION

Important hazards: Sawing, sanding or machining bamboo products can produce dust which can cause an explosion hazard. Dust or splinters may cause upper respiratory tract, eye and skin irritation.

Inhalation: Dust may cause respiratory irritation, nasal dryness, coughing, sneezing, wheezing, headache and sinusitis. Repeated or prolonged exposure at elevated dust levels may result in allergic responses or respiratory sensitization in some individuals.

Skin contact: Certain species of bamboo/wood may cause allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to dust.

Eye contact: Dust or splinters may cause irritation or injury to the eyes.

Ingestion: Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

Chemical product specific hazards: During manufacturing, there may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. Ventilation in areas where product is stored is recommended.

Outline of an anticipated emergency:

HMIS rating: Health = 0, Fire = 1, Physical Hazard = 0, Personal Protection = 0

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe, * = Chronic hazard

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## 3) COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS # | Content (% Weight) |
|---|---|---|
| Bamboo (Phyllostachys pubescens) | n.a. | 95 - 96 % |
| Phenol Formaldehyde Resin (PF) | 9003-35-4 | < 3 % |
| Melamine Urea Formaldehyde Resin (MUF) | 25036-13-9 | < 1,5 % |

Wood and wood products are manufactured articles and are not considered hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200. Wood/Bamboo dust, a by-product generated from sawing, sanding or machining bamboo and bamboo products, may be hazardous.

## 4) FIRST-AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.

Skin contact: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Eye contact: Do not rub your eyes. Particles may cause the eye to be scratched. Remove contact lenses if worn. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, contact a physician.

Ingestion: Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

## 5) FIRE-FIGHTING MEASURES

Sawing, sanding or machining bamboo/wood or bamboo/wood products can produce dust which is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lower explosion limit (LEL) for bamboo/wood dust.

Extinguishing media: Water spray, carbon dioxide or dry chemical

Specific hazards: Burning of bamboo/wood can produce irritating fumes and gases including carbon monoxide, aldehydes and organic acids.

Specific extinguishing methods: Firefighters should wear protective clothing including self-contained breathing apparatus (SCBA) to avoid breathing any wood combustion products. Partially burned dust is especially hazardous if dispersed into the air. Wet down dust to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

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## 6) ACCIDENTAL RELEASE MEASURES

Not applicable for product in its purchased form. Sweep or vacuum dust generated from sawing, sanding or manufacturing for recovery or disposal. Wet down accumulated wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Use with adequate ventilation. Do not inhale dusts during clean up. Use approved dust mask or filtering face piece where ventilation is not possible and exposure limits could be exceeded.

## 7) HANDLING AND STORAGE

| | |
|---|---|
| Handling: | Use this product with adequate ventilation. Avoid frequent or prolonged inhalation of wood dust. Goggles or safety glasses are recommended to protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when signs of contamination appear. Bamboo and bamboo products are combustible and, therefore, should not be subjected to temperatures exceeding the auto ignition temperature. Wet down bamboo dust generated by sawing, sanding, or machining to reduce the likelihood of ignition or dispersion of dust into the air. |
| Storage: | Store flat, supported and protected from direct contact with the ground, in a well-ventilated, cool, dry place, avoid high moisture and humidity, away from open flames or temperatures high enough to ignite or cause smoldering combustion. |

## 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|---|---|
| Engineering controls: | Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining bamboo and bamboo products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, marching this product. General dilution ventilation is recommended in processing and storage areas. |

Personal protective equipment:

| | |
|---|---|
| General: | Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of the combustible material. Minimize generation of airborne dust concentrations. |
| Respiratory protection: | An approved dust mask or filtering face piece is recommended in dusty environments and where ventilation is not sufficient to keep dust levels below permissible exposure limits. |
| Eye protection: | Goggles or safety glasses are recommended when sawing, sanding or machining this product. |
| Skin and body protection: | Protective clothing and gloves are recommended when sawing, sanding, machining or otherwise handling bamboo and bamboo products. Wash exposed area thoroughly after working with the bamboo, before eating, drinking, and use of tobacco products. |

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## 9) PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Veneer, available in various styles, colors and sizes. |
| Physical state: | Solid |
| Density: | approx. 700 kg/m3 |
| Solubility (H2O): | Insoluble |

## 10) STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical stability: | This product is stable under ordinary conditions of use. There may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. |
| Conditions to avoid: | Avoid excess heat, open flames, and sparks. Avoid contact with incompatible materials. Avoid prolonged direct sunlight and moisture/humidity. |
| Hazardous reactions: | Will not occur |
| Incompatible materials: | Will not occur |
| Hazardous decomposition products: | Burning of any bamboo/wood can produce irritating fumes and gases including carbon monoxide, carbon dioxide, aldehydes and organic acids. |

## 11) TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute and chronic toxicity: | Bamboo dust generated from sawing, sanding, or machining may cause temporary nasal dryness, irritation of the eyes and upper respiratory system, coughing. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals present in the wood. |
| Carcinogenicity: | Not available for product in purchased form.<br><br>Formaldehyde vapor and water solution may irritate the nose, throat, eyes and skin. Formaldehyde solution may cause irritation and skin allergies.<br>The International Agency for Research on Cancer (IARC) has reported that formaldehyde vapor is harmful to human health and may increase the possibility of lung cancer. From animal experiments, it is clear that prolonged exposure to a high concentration of formaldehyde vapor may lead to lung cancer.<br><br>Over 150,000 people are involved in occupational disease research, but research can provide limited evidence that formaldehyde emission leads to the increase of lung cancer and rhinal throat cancer. |

## 12) ECOLOGICAL INFORMATION

No data available for this product. This product is expected to be inherently biodegradable.

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## 13) DISPOSAL CONSIDERATIONS

Dispose of material according to local, state, federal and provincial regulations.

## 14) TRANSPORT INFORMATION

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

## 15) REGULATORY INFORMATION

This list does not represent an all-inclusive-selection of regulations.

| | |
|---|---|
| OSHA: | Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard (29 CFR 1910.1200). Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous under OSHA's Hazard Communication Standard (29 CFR 1910.1200). |
| REACH: | Wood and wood products are considered manufactured articles and are exempt under REACH (EU Regulation (EC) No. 1907/2006). None of the components of the product are listed in Annex XIV - List of substances subject to authorization. |

## 16) OTHER INFORMATION

| | |
|---|---|
| Disclaimer: | IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Moso International BV, makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Moso International BV, will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading. |

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# SAFETY DATA SHEET

MOSO BAMBOO SOLID PANEL (SP-PP)

## 1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: MOSO® Bamboo Solid Panel
Side Pressed / Plain Pressed versions

Supplier:
Moso International BV
Adam Smithweg 2
NL-1689 ZW Zwaag
The Netherlands

T +31(0)229 265732
F +31(0)229 267759
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www.moso.eu

Description: The Moso bamboo products are composed of bamboo strips and possible other materials, bonded with adhesives from third party manufacturers.

## 2) HAZARDS IDENTIFICATION

Important hazards: Sawing, sanding or machining bamboo products can produce dust which can cause an explosion hazard. Dust or splinters may cause upper respiratory tract, eye and skin irritation.

Inhalation: Dust may cause respiratory irritation, nasal dryness, coughing, sneezing, wheezing, headache and sinusitis. Repeated or prolonged exposure at elevated dust levels may result in allergic responses or respiratory sensitization in some individuals.

Skin contact: Certain species of bamboo/wood may cause allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to dust.

Eye contact: Dust or splinters may cause irritation or injury to the eyes.

Ingestion: Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

Chemical product specific hazards: During manufacturing, there may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. Ventilation in areas where product is stored is recommended.

Outline of an anticipated emergency:

HMIS rating: Health = 0, Fire = 1, Physical Hazard = 0, Personal Protection = 0

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe, * = Chronic hazard

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## 3) COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS # | Content (% Weight) |
|---|---|---|
| Bamboo (Phyllostachys pubescens) | n.a. | 98 - 99 % |
| Melamine Formaldehyde Resin (MF) | 25036-13-9 | < 2 % |

Wood and wood products are manufactured articles and are not considered hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200. Wood/Bamboo dust, a by-product generated from sawing, sanding or machining bamboo and bamboo products, may be hazardous.

## 4) FIRST-AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.

Skin contact: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Eye contact: Do not rub your eyes. Particles may cause the eye to be scratched. Remove contact lenses if worn. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, contact a physician.

Ingestion: Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

## 5) FIRE-FIGHTING MEASURES

Sawing, sanding or machining bamboo/wood or bamboo/wood products can produce dust which is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lower explosion limit (LEL) for bamboo/wood dust.

Extinguishing media: Water spray, carbon dioxide or dry chemical

Specific hazards: Burning of bamboo/wood can produce irritating fumes and gases including carbon monoxide, aldehydes and organic acids.

Specific extinguishing methods: Firefighters should wear protective clothing including self-contained breathing apparatus (SCBA) to avoid breathing any wood combustion products. Partially burned dust is especially hazardous if dispersed into the air. Wet down dust to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

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## 6) ACCIDENTAL RELEASE MEASURES

Not applicable for product in its purchased form. Sweep or vacuum dust generated from sawing, sanding or manufacturing for recovery or disposal. Wet down accumulated wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Use with adequate ventilation. Do not inhale dusts during clean up. Use approved dust mask or filtering face piece where ventilation is not possible and exposure limits could be exceeded.

## 7) HANDLING AND STORAGE

| | |
|---|---|
| Handling: | Use this product with adequate ventilation. Avoid frequent or prolonged inhalation of wood dust. Goggles or safety glasses are recommended to protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when signs of contamination appear. Bamboo and bamboo products are combustible and, therefore, should not be subjected to temperatures exceeding the auto ignition temperature. Wet down bamboo dust generated by sawing, sanding, or machining to reduce the likelihood of ignition or dispersion of dust into the air. |
| Storage: | Store flat, supported and protected from direct contact with the ground, in a well-ventilated, cool, dry place, avoid high moisture and humidity, away from open flames or temperatures high enough to ignite or cause smoldering combustion. |

## 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|---|---|
| Engineering controls: | Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining bamboo and bamboo products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, marching this product. General dilution ventilation is recommended in processing and storage areas. |

Personal protective equipment:

| | |
|---|---|
| General: | Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of the combustible material. Minimize generation of airborne dust concentrations. |
| Respiratory protection: | An approved dust mask or filtering face piece is recommended in dusty environments and where ventilation is not sufficient to keep dust levels below permissible exposure limits. |
| Eye protection: | Goggles or safety glasses are recommended when sawing, sanding or machining this product. |
| Skin and body protection: | Protective clothing and gloves are recommended when sawing, sanding, machining or otherwise handling bamboo and bamboo products. Wash exposed area thoroughly after working with the bamboo, before eating, drinking, and use of tobacco products. |

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## 9) PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Veneer, available in various styles, colors and sizes. |
| Physical state: | Solid |
| Density: | approx. 700 kg/m3 |
| Solubility (H2O): | Insoluble |

## 10) STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical stability: | This product is stable under ordinary conditions of use. There may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. |
| Conditions to avoid: | Avoid excess heat, open flames, and sparks. Avoid contact with incompatible materials. Avoid prolonged direct sunlight and moisture/humidity. |
| Hazardous reactions: | Will not occur |
| Incompatible materials: | Will not occur |
| Hazardous decomposition products: | Burning of any bamboo/wood can produce irritating fumes and gases including carbon monoxide, carbon dioxide, aldehydes and organic acids. |

## 11) TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute and chronic toxicity: | Bamboo dust generated from sawing, sanding, or machining may cause temporary nasal dryness, irritation of the eyes and upper respiratory system, coughing. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals present in the wood. |
| Carcinogenicity: | Not available for product in purchased form.<br><br>Formaldehyde vapor and water solution may irritate the nose, throat, eyes and skin. Formaldehyde solution may cause irritation and skin allergies.<br>The International Agency for Research on Cancer (IARC) has reported that formaldehyde vapor is harmful to human health and may increase the possibility of lung cancer. From animal experiments, it is clear that prolonged exposure to a high concentration of formaldehyde vapor may lead to lung cancer.<br><br>Over 150,000 people are involved in occupational disease research, but research can provide limited evidence that formaldehyde emission leads to the increase of lung cancer and rhinal throat cancer. |

## 12) ECOLOGICAL INFORMATION

No data available for this product. This product is expected to be inherently biodegradable.

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## 13) DISPOSAL CONSIDERATIONS

Dispose of material according to local, state, federal and provincial regulations.

## 14) TRANSPORT INFORMATION

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

## 15) REGULATORY INFORMATION

This list does not represent an all-inclusive-selection of regulations.

| | |
|---|---|
| OSHA: | Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard (29 CFR 1910.1200). Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous under OSHA's Hazard Communication Standard (29 CFR 1910.1200). |
| REACH: | Wood and wood products are considered manufactured articles and are exempt under REACH (EU Regulation (EC) No. 1907/2006). None of the components of the product are listed in Annex XIV - List of substances subject to authorization. |

## 16) OTHER INFORMATION

| | |
|---|---|
| Disclaimer: | IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Moso International BV, makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Moso International BV, will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading. |

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# SAFETY DATA SHEET

MOSO BAMBOO VENEER

## 1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name: | MOSO® Bamboo Veneer | |
| Supplier: | Moso International BV<br>Adam Smithweg 2<br>NL-1689 ZW Zwaag<br>The Netherlands | T +31(0)229 265732<br>F +31(0)229 267759<br>info@moso.eu<br>www.moso.eu |
| Description: | The Moso bamboo products are composed of bamboo strips and possible other materials, bonded with adhesives from third party manufacturers. | |

## 2) HAZARDS IDENTIFICATION

| | |
|---|---|
| Important hazards: | Sawing, sanding or machining bamboo products can produce dust which can cause an explosion hazard. Dust or splinters may cause upper respiratory tract, eye and skin irritation. |
| Inhalation: | Dust may cause respiratory irritation, nasal dryness, coughing, sneezing, wheezing, headache and sinusitis. Repeated or prolonged exposure at elevated dust levels may result in allergic responses or respiratory sensitization in some individuals. |
| Skin contact: | Certain species of bamboo/wood may cause allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to dust. |
| Eye contact: | Dust or splinters may cause irritation or injury to the eyes. |
| Ingestion: | Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation. |
| Chemical product specific hazards: | During manufacturing, there may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. Ventilation in areas where product is stored is recommended. |

Outline of an anticipated emergency:

HMIS rating: Health = 0, Fire = 1, Physical Hazard = 0, Personal Protection = 0

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe, * = Chronic hazard

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## 3) COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS # | Content (% Weight) |
|---|---|---|
| Bamboo (Phyllostachys pubescens) | n.a. | 85 - 90 % |
| Urea Formaldehyde Resin (UF), Melamine Formaldehyde Resin (MF) | 9011-05-6, 25036-1-9 | < 1 % |
| Polyvinyl Acetate Resin (PVA) | 9003-20-7 | < 6,5 % |
| Cellulose backing | n.a. | 5 – 10 % |

Wood and wood products are manufactured articles and are not considered hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200. Wood/Bamboo dust, a by-product generated from sawing, sanding or machining bamboo and bamboo products, may be hazardous.

## 4) FIRST-AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.

Skin contact: For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

Eye contact: Do not rub your eyes. Particles may cause the eye to be scratched. Remove contact lenses if worn. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, contact a physician.

Ingestion: Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

## 5) FIRE-FIGHTING MEASURES

Sawing, sanding or machining bamboo/wood or bamboo/wood products can produce dust which is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lower explosion limit (LEL) for bamboo/wood dust.

Extinguishing media: Water spray, carbon dioxide or dry chemical

Specific hazards: Burning of bamboo/wood can produce irritating fumes and gases including carbon monoxide, aldehydes and organic acids.

Specific extinguishing methods: Firefighters should wear protective clothing including self-contained breathing apparatus (SCBA) to avoid breathing any wood combustion products. Partially burned dust is especially hazardous if dispersed into the air. Wet down dust to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

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## 6) ACCIDENTAL RELEASE MEASURES

Not applicable for product in its purchased form. Sweep or vacuum dust generated from sawing, sanding or manufacturing for recovery or disposal. Wet down accumulated wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Use with adequate ventilation. Do not inhale dusts during clean up. Use approved dust mask or filtering face piece where ventilation is not possible and exposure limits could be exceeded.

## 7) HANDLING AND STORAGE

| | |
|---|---|
| Handling: | Use this product with adequate ventilation. Avoid frequent or prolonged inhalation of wood dust. Goggles or safety glasses are recommended to protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when signs of contamination appear. Bamboo and bamboo products are combustible and, therefore, should not be subjected to temperatures exceeding the auto ignition temperature. Wet down bamboo dust generated by sawing, sanding, or machining to reduce the likelihood of ignition or dispersion of dust into the air. |
| Storage: | Store flat, supported and protected from direct contact with the ground, in a well-ventilated, cool, dry place, avoid high moisture and humidity, away from open flames or temperatures high enough to ignite or cause smoldering combustion. |

## 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|---|---|
| Engineering controls: | Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining bamboo and bamboo products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, marching this product. General dilution ventilation is recommended in processing and storage areas. |

Personal protective equipment:

| | |
|---|---|
| General: | Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of the combustible material. Minimize generation of airborne dust concentrations. |
| Respiratory protection: | An approved dust mask or filtering face piece is recommended in dusty environments and where ventilation is not sufficient to keep dust levels below permissible exposure limits. |
| Eye protection: | Goggles or safety glasses are recommended when sawing, sanding or machining this product. |
| Skin and body protection: | Protective clothing and gloves are recommended when sawing, sanding, machining or otherwise handling bamboo and bamboo products. Wash exposed area thoroughly after working with the bamboo, before eating, drinking, and use of tobacco products. |

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## 9) PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Veneer, available in various styles, colors and sizes. |
| Physical state: | Solid |
| Density: | approx. 700 kg/m3 |
| Solubility (H2O): | Insoluble |

## 10) STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical stability: | This product is stable under ordinary conditions of use. There may be a slight release of formaldehyde from uncovered products; however, the tested concentration is at or below the emission class E1. The release of formaldehyde decreases over time according to well established decay dynamics. The concentration will reach its peak value in a confined area. |
| Conditions to avoid: | Avoid excess heat, open flames, and sparks. Avoid contact with incompatible materials. Avoid prolonged direct sunlight and moisture/humidity. |
| Hazardous reactions: | Will not occur |
| Incompatible materials: | Will not occur |
| Hazardous decomposition products: | Burning of any bamboo/wood can produce irritating fumes and gases including carbon monoxide, carbon dioxide, aldehydes and organic acids. |

## 11) TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute and chronic toxicity: | Bamboo dust generated from sawing, sanding, or machining may cause temporary nasal dryness, irritation of the eyes and upper respiratory system, coughing. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals present in the wood. |
| Carcinogenicity: | Not available for product in purchased form.<br><br>Formaldehyde vapor and water solution may irritate the nose, throat, eyes and skin. Formaldehyde solution may cause irritation and skin allergies.<br>The International Agency for Research on Cancer (IARC) has reported that formaldehyde vapor is harmful to human health and may increase the possibility of lung cancer. From animal experiments, it is clear that prolonged exposure to a high concentration of formaldehyde vapor may lead to lung cancer.<br><br>Over 150,000 people are involved in occupational disease research, but research can provide limited evidence that formaldehyde emission leads to the increase of lung cancer and rhinal throat cancer. |

## 12) ECOLOGICAL INFORMATION

No data available for this product. This product is expected to be inherently biodegradable.

## 13) DISPOSAL CONSIDERATIONS

Dispose of material according to local, state, federal and provincial regulations.

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## 14) TRANSPORT INFORMATION

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

## 15) REGULATORY INFORMATION

This list does not represent an all-inclusive-selection of regulations.

| | |
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# HERSTELLERERKLÄRUNG
# EU-TAXONOMIE VERORDNUNG

**Zur Bestätigung der Konformität gemäß Anlage C zur Vermeidung und Verminderung der Umweltverschmutzung gemäß der Delegierten Verordnung (EU) 2023/2486 der Kommission vom 27. Juni 2023.**

Hiermit bestätigen wir:

MOSO International B.V.
Adam Smithweg 2, 1689 ZW, Zwaag
Niederlande

für das folgende Produkt / die folgenden Produkte:

MOSO Bamboo Outdoor products
MOSO Bamboo Solid Panels Veneers and Beams
MOSO Bamboo Flooring

| | |
|---|---|
| Das Produkt/ Erzeugnis/ mindestens ein Teilerzeugnis enthält Stoffe der Kandidatenliste (Version zum Ausstellungsdatum) oberhalb 0,1 Massen%: | **nein** |
| Das Produkt/Erzeugnis/mindestens ein Teilerzeugnis enthält weitere CMR-Stoffe der Kategorie 1A oder 1B, die nicht auf der Kandidatenliste stehen, oberhalb von 0,1 Massen-% in mindestens einem Teilerzeugnis: | **nein** |

22/7/2025 Zwaag

Ort, Datum, Unterschrift, Stempel

MOSO International B.V.
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1689 ZW Zwaag
The Netherlands

Ihr Ansprechpartner für Rückfragen:
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Mailadresse: evanweesel@moso.eu