

## DATA SHEET

### ECO-CORE® MOSO BAMBOO FOREST FLOORING

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#### ➤ PRODUCT

Although the bamboo species "MOSO" is formally not a wood but a grass, it has excellent "hardwood like" characteristics: it is very hard and durable. Combined with the high stability (little shrink and swell) it is the perfect raw material for MOSO Bamboo Forest flooring.

MOSO brings the bamboo forest to your floor: instead of cutting the bamboo pole into strips and pressing them together into a floor board, now the 'complete' bamboo trunk is used. The wall of the trunk is flattened with a special process and it serves as the top layer of a 3ply floor board. The result is a very robust board with the natural beauty of the bamboo plant. The rings on the trunk are visible in the shape of nodes (on the full width of the board) and even the markings which have been made by the farmers can be seen in some boards. The surface of the flooring consists of the stony bark of the bamboo stem, which is so hard that no oil or lacquer finish is required.

#### ➤ SIZE

Sheet size 1210mm x 125mm x 18mm

Sold in packs of 10 pieces/pack; for a minimum area of 1.5125m<sup>2</sup>.

#### ➤ CONSTRUCTION

Configuration: 3 ply; toplayer approx. 5mm

Eco-Core Moso Bamboo Flooring cannot be lacquered or sanded. This floor type cannot be installed on floor heating.

#### ➤ COLOUR

Natural Bamboo colour

#### ➤ DENSITY

850 kg/ m<sup>3</sup>

#### ➤ HARDNESS

Hardness: 8,1 kg / mm<sup>2</sup> (Brinell)

#### ➤ HUMIDITY

Shrink/swell: 0,14% per 1% change in moisture content

Equilibrium MC: 10% at 20 °C and 65% Rel. Air Humidity

8% at 20 °C and 50% Rel. Air Humidity

#### ➤ FIRE RESISTANCE

Fire class: EN 13501-1: Cfl-s1

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#### ➤ ENVIRONMENT

Bamboo is an endless resource as it grows very fast (up to 1 meter per day) and as only the older stems are harvested, the younger bamboo receives more space for growth providing a higher yield. Because of its unique growing speed, combined with efficient production, MOSO bamboo actually absorbs more CO<sub>2</sub> than it releases during production and transport to the customer. All solid MOSO bamboo floors are therefore CO<sub>2</sub> neutral.

Eco-Core Moso Bamboo Forest flooring is a healthy choice as it is anti-static and anti-allergenic, thus facilitating a healthy indoor environment.

Eco-Core Moso Bamboo Forest Flooring conforms to an E0 Formaldehyde emission (<0,025 mg/m<sup>3</sup> E0 norm) and is CO<sub>2</sub> neutral.

#### ➤ APPLICATION

Internal flooring

#### ➤ INSTALLATION INSTRUCTION

##### **Before Installation**

- ☒ To allow acclimatisation, lay your bamboo flooring flat in the room in which it is to be installed for at least 48 hours, in its sealed foil packaging or box, at a room temperature of 18°-20°C (50-65% air humidity).
- ☒ Please note that the surface to which the flooring is to be applied must have a minimum temperature of 18°C. The flooring may be installed on any sub floor which is level, without cracks, dry, clean and stable.
- ☒ Excessive humidity has a detrimental effect on the flooring. Maximum permitted humidity levels for sub floors are: sand cement 1,8%, chipboard 7-9%, anhydrite floors 0.3%.

##### **Please note**

- ☒ Bamboo is a very natural product. Colour differences, height differences, small cracks in the surface and gaps between the boards are normal for this product.
- ☒ You should always mix the components from different boxes.
- ☒ Before installation, we advise you to inspect the flooring for moisture content, size, colour differences and damage. We cannot accept any complaints regarding this once the material has been installed or further processed.
- ☒ Installation of the flooring should always be the final job in any building project, in order to avoid damaging the flooring surface.
- ☒ Felt pads must be attached to furniture and chairs to avoid damage to the flooring surface.
- ☒ To protect against dust and sand, a walk-off mat has to be placed before and after the entrance of the room.

##### **Ideal Room Conditions**

- ☒ Room temperature approx. 18-20°C; Air humidity 50 - 65%.

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☒ During the winter months, room air can become extremely dry. To maintain a constant air humidity, ceramic humidifiers should be mounted on radiators (or stoves) and, for larger rooms, electric air humidifiers are required. In summer and autumn when air humidity is high, ensure that the room is well ventilated. Where these conditions are not maintained, warping, shrinkage and movement will occur. Check the air humidity using a hygrometer.

#### **The Gluing**

☒ This flooring type should be fully glued on the sub floor. It can be glued directly on the screed (like sand cement or anhydrite) if it is level, without cracks, dry, clean and stable. It is often advised to place a chipboard or plywood to deal with possible problems in the sub floor.

☒ This way of installation requires specialist materials and skills. Only a recognised contractor should be used for the installation.

☒ Floating installation is possible, but in that case the maximum width of the floor is approx. 5 metre and the maximum length is approx. 12 metre.

☒ Advised adhesive: a 2-component polyurethane.

☒ For porous surfaces dispersion glues (with a low water content) or synthetic resin adhesive with low solvent content can be used.

☒ Elastic adhesive systems like 1-component Polyurethane or silan type of adhesives only can be used, when:

-Shear strength  $T_s > 1.4 \text{ N} / \text{mm}^2$  (3 days balanced at 23 degrees Celsius / 50% Air Humidity)

-Shear elongation  $\gamma >= 0.5$  (3 days balanced at 23 degrees Celsius / 50% Air Humidity)

Please ask your glue supplier for more information.

#### **Floor Heating**

This floor type cannot be installed on floor heating.

#### **Finish**

The surface of the MOSO FOREST is the bark/skin of the bamboo pole and is very hard and dense. To protect it (and especially to close the gaps at the bevel) a floor wax can be applied.

#### **Maintenance and Cleaning**

Cleaning and care: The useful life of your bamboo floor will be considerably increased with suitable cleaning and maintenance. Use limited amounts of water (moist mop) and neutral detergents.

#### **Additional Note**

Whilst all due care is taken to ensure the accuracy of the installation instructions, individual circumstances (location, sub floor and installation procedures) may vary and are beyond the manufacturer's control. In case of doubt, therefore, consult the distributor.

## BENEFITS

MOSO floors are a healthy choice as they are anti-static and anti-allergenic, thus facilitate a healthy indoor environment.