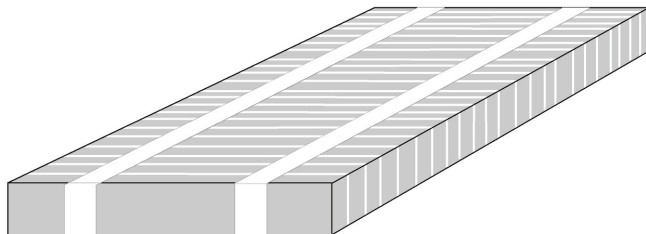


Moso® Industrial flooring

Product

The MOSO industrial floor consists of short bamboo strips, which are bundled into a block form with tape. After sanding off this tape, the floor is filled and finished. This floor type is especially suitable to be glued directly onto the sub floor.



On edge / industrial flooring

Product line

Code	Code	Style	Edges	Finish	Dimensions (mm)	Box Cont. (Pcs.)	Box Cont. (m ²)
Natural	Caramel						
BF-PR300	BF-PR350	VL	SE	-	280x140x10	96	3,763
BF-PR100	BF-PR150	VL	SE	-	280x140x15	60	2,352
BF-PR1000	BF-PR1050	DT	SE	-	300x200x10	32	1,920

VL = Vertical
DT = Density
SE = Sharp edge

Installation

Please read the full installation instructions on the backside.

This floor type can be installed – under certain conditions – on warm water floor heating. See “MOSO flooring and floor heating”.

Technical characteristics

- Hardness: 4,0 kg/mm² (Brinell)
Thermo: 3,0 kg/mm² (Brinell)
Density: 9,5 kg/mm² (Brinell)
- Shrink/swell: 0,14% per 1% change in moisture content
Thermo: 0,08% 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
Thermo: 3-4% (20 °C and 50-65% Rel. Air Humidity)
- Density: 700 kg/ m³; *Density: 1050 kg/m³*
- Fire class: EN 13501-1: Cfl-s1
- Thermal conductivity: $\lambda = 0,17 \text{ W / (m}\cdot\text{K)}$
- Thermal resistance: $R = 0,116 \text{ m}^2\cdot\text{K/W}$ (20mm Thickness);
 $R = 0,088 \text{ m}^2\cdot\text{K/W}$ (15mm Thickness);
 $R = 0,058 \text{ m}^2\cdot\text{K/W}$ (10mm thickness)



Installation instruction MOSO® Industrial flooring

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 natural product! Therefore variations in colour and structure within a batch are possible. 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. Take care when working with adhesive tape as this could damage the flooring finish.
- 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%.
- During the winter months, room air can become extremely dry. To maintain 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

- The backside of each element is marked with a pencil.
- The bamboo strips can be slightly curved which can lead to small gaps between the strips. This is normal for bamboo industrial flooring.
- 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.
- This way of installation requires specialist materials and skills. Only a recognised contractor should be used for the installation.
- Advised adhesive: a 2-component polyurethane. Please note that hardened adhesive can only be removed from the varnished surface using mechanical means, which may lead to damage to the protective finish.
- 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 can be installed – under certain conditions – on warm water floor heating. See “MOSO flooring and floor heating”.

Finish untreated flooring

- After the glue has hardened, the floor can be sanded and filled (with a mixture of sanding dust – 100 grit- and floor filler).
- Bamboo flooring can be lacquered, oiled or waxed. For oil: note that bamboo has a dense surface structure, therefore apply oil thinly and allow to dry between applications.

Maintenance and cleaning

The useful life of your bamboo floor will be considerably increased with suitable cleaning and maintenance. Ask your supplier which products are suitable.

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.

These instructions are subject to change. For the latest version go to www.moso.eu.

