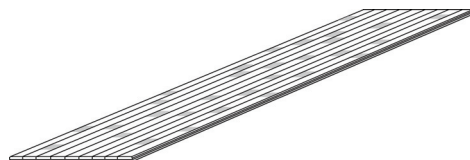


Moso® Unibamboo™

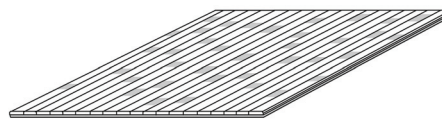
(Patent Nr. NL 2000349)

Product

Unibamboo is a flexible floor covering, consisting of a bamboo top layer pressed on a felt latex backing. The toplayer consists of solid bamboo strips (width 15mm), showing clearly the bamboo 'nodes'. All Unibamboo boards are finished with a special, very matt, finish (Bona® Naturale).



UNIBAMBOO™ Board



UNIBAMBOO™ Tile

Product line

Code Natural	Code Caramel	Edges	Finish	Dimensions (mm)	Box Content (Pcs)	Box Content (m ²)
FPNLD18-90-**	FPCLD18-90-**	MB4	L / SL	900x180x3	15	2,430
FPNL16-120-**	FPCL16-120-**	MB2	L / SL	1200x165x4	12	2,376
TPNL15-50-**	TPCL15-50-**	MB2	L / SL	500x500x4	12	3,000
TPNLD15-50-**	TPCLD15-50-**	MB2	L / SL	500x500x3	12	3,000

MB2 = Micro bevel on 2 sides (length)
 MB4 = Micro bevel on 4 sides
 L = Lacquered Bona Naturale 110 gr/m²
 SL = Stained/Lacquered Bona Naturale 110 gr/m²

**) The last 2 positions of the product code represent the finish:
 Transparent lacquer (91), White (92), Black (93), Mahony (94), Taupe (95), Colonial (96)

FPNLD18-90, FPCLD18-90, TPNLD15-50 and TPCLD15-50 are equipped with a thinner latex/felt. These products are described as „G2“ (2nd Generation).

Installation

Please read the full installation instructions on the backside.

This floor type can not be installed on floor heating.

Technical characteristics

Bamboo:

- Hardness: approx. 4 kg/mm² (Brinell)
- Shrink/swell: 0,14% per 1% change in moisture content
- Density: 700 kg/ m³
- Equilibrium MC: 10% at 20 °C and 65% Rel. Air Humidity
8% at 20 °C and 50% Rel. Air Humidity

Latex felt:

- Density: 780 gr./m²
- Thickness: approx. 2mm (G2 version: 1mm)

Bamboo+latex combined:

- Hardness: approx. 2,8 kg/mm² (Brinell)
- Sound reduction: ΔLin=8dB, ΔLw=19dB (G2 version: test pending)
- Fire class: EN 13501-1: Dfl-s1
- Formaldehyde emission: < 0,124 mg/m³ (E1 Norm)

Lacquer: BONA NATURALE:

- Abrasion: SS-EN 13696 (12/16): 4500 Revs
DIN EN438:2 (S-42): 125 rev
- Adhesion: Coin test: approved
SS-EN 14354 (cross-cut) GT 0/5b
- Gloss ASTM D523: 6,9-9,2 deg

Patent details

- Dutch Patent nr.: 2000349
- PCT request: B27J 1/100 (2006.01) /E04F 13/10 (2006.01) Filing date 03.12.07

Installation instruction UNIBAMBOO

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. Although the material has been colour graded, you should always mix the boards from different packs! Make sure you have boxes with the same colour grade (all boxes should have the same colour label: L or M or D).
- Before installation, we advise you to inspect the boards for damage and other irregularities. We cannot accept any complaints regarding this once the boards have been installed.
- Installation of the boards should always be the final job in any building project, in order to avoid damaging the surface. Take care when working with adhesive tape as this could damage the finish.
- Avoid the boards dropping: especially the corners are very vulnerable for dents (however if this should happen, you can easily cut off this part).
- Felt pads must be attached to furniture and chairs to avoid damage to the flooring surface.
- In case a board or strip is damaged, it can easily be replaced (for this reason it is advisable to always keep some spare boards available). Use a sharp knife to cut the board (strip) from the floor (be sure to remove the latex as well). Clean the sub floor and glue the new board (strip) in place.

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.

Installation

UNIBAMBOO BOARDS

- This flooring type should be fully glued on the sub floor. See list 'recommended glues'. ATTENTION: don't apply more than 250-500 gr/m²!
- Bamboo and wood are natural products which are affected by air humidity. High air humidity causes bamboo material to swell whilst low air humidity results in shrinking. It is of the utmost importance that you maintain the edge distance (expansion gap) from walls, door frames, pipes etc.! This distance should be 5 - 10 mm.
- First determine in which direction you will place the boards. It is advised to install the boards parallel to the main light source.
- For the first row, place a line, at a distance of the width of 3 boards + expansion space from the wall, parallel to the installation direction. The first row has to be placed exactly at this line, so it is recommended to place a slat or beam on the floor – so the boards can be put against this. See drawing below.
- Apply the glue, according to the instructions of the manufacturer, and install the first 2 rows. Install each board as follows: first put one corner in the correct position and then press the rest of the board in the glue.
- If you used a beam/slat to align the first rows, remove it now.
- Now install the rest of the boards. For the last row: cut the boards to size, leaving 5 to 10 mm space to the wall. To cut between the bamboo strips (=length direction of board) a sharp knife can be used. To cut through the bamboo, (for example for cutting the board to a certain length) use a jigsaw with a fine blade.
- For some glue types it is advisable to roll the floor with a special roller, 30-60 minutes after installing. Please consult your glue supplier.

UNIBAMBOO TILES

- This flooring type should be fully glued on the sub floor. See list 'recommended glues'. ATTENTION: don't apply more than 250-500 gr/m²!
- Bamboo and wood are natural products which are affected by air humidity. Excessive air humidity causes bamboo material to swell whilst low air humidity results in shrinking. It is of the utmost importance that you maintain the edge distance (expansion gap) from walls, door frames, pipes etc.! This distance should be 5 - 10 mm.
- Determine the middle of the room by drawing a line on the floor, both in length and width, in the middle, at right angles to the wall. This is the starting point for the installation.
- Place (without glue) along these 2 lines a 'test' row. When, at the walls, only a small distance is left, the material can be shifted somewhat, to get a better distribution.
- Apply the glue, according to the instructions of the manufacturer, and install the first 2 rows. Install each tile as follows: first put one corner of the tile in the correct position and then press the rest of the tile in the glue.
- A bamboo strip (one or more) can be placed in between the tiles. Especially when another colour is used, one can create a very playful effect.
- Now install the rest of the tiles. For the last row: cut the tiles to size, leaving 5 to 10 mm space to the wall. To cut between the bamboo strips, a sharp knife can be used. Use a scissors or saw with a fine blade to cut the bamboo strips.

Floor heating

This floor type can not be installed on floor heating.

Maintenance and cleaning

- The useful life of your floor will be considerably increased with suitable cleaning and maintenance.
- Sand and dust have the same effect on the surface as sanding paper. Therefore, use a soft brush, vacuum cleaner or special dust remover to keep sand and dust from the floor. At the entrance, use a good quality entrance mat.
- Frequent cleaning: use dry methods e.g. vacuum cleaning and dry mopping.
- Occasional cleaning to remove more difficult dirt: use Bona® Parquet cleaner or Bona® Wood floor cleaner (www.bona.com).

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 supplier.

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

