

Dear customer,

Thank you for choosing the high-grade bambeau® industrial bamboo parquet flooring.

To retain the value and the high-grade finish of your parquet flooring, we ask you to follow the instructions below.

Please note that laying parquet should always be the last work done in a building project. That way, there is less risk of the surface getting damaged.

bambeau® industrial parquet must be full-surface glued using a suitable parquet adhesive (as per DIN EN 14293). Full-surface gluing on heated screeds is also possible.

The ideal choice is one of the modern hybrid, SMP or polyurethane parquet adhesives. Since they are solvent and water-free, they do not add moisture and are an economical solution for full-surface parquet gluing on all the usual subfloors.

## GENERAL

Before beginning installation, check what kind of subfloor it is and the condition it is in. For instance:

- Calcium sulphate screed
- Mastic asphalt screed
- Cement screed
- Other subfloors

The type of substrate determines the special pre-treatment.

The condition of the subfloor must be checked based on DIN 18 356 Part 3.1.

The flooring should only be installed on subfloors which meet the following criteria in particular:

- **even** (DIN 18 202 applies)
- **free of cracks**
- **permanently dry** (take CM (carbide method) measurement)
- **clean**
- **sound surface** (conduct grid scratch test, or the like)

If one or more of the criteria listed is not met, the subfloor should be pretreated accordingly.

bambeau® industrial parquet is not suitable for wet rooms, such as bathrooms, toilets, saunas or laundry rooms.

## WOOD MOISTURE CONTENT/MOISTURE CONTENT ON DELIVERY

bambeau® industrial bamboo parquet – like other standard parquet wood – is acclimatised to ambient conditions of 20° Celsius and 50% rel. humidity. In these conditions, bamboo has an EMC (equilibrium moisture content) of 8.3% (% by weight).

The moisture content on delivery (wood moisture content) of bambeau® industrial bamboo parquet thus corresponds to 8.3% (+/-2%).

The EMC of bamboo can be electronically checked using standard wood moisture meters. Most standard wood moisture meters can be individually configured to the particular type of wood. Ask your meter manufacturer or Becker & Grossgarten GmbH if you have questions about the settings.

## FORMS OF INSTALLATION

### 1 | Full-surface gluing using parquet adhesive

If the screed is a permanently dry type which meets the test criteria of DIN 18 356 Part 3.1, prepare the surface for parquet installation in line with the state-of-the-art (e.g. grind, brush, vacuum, prime, smooth). If levelling compounds or fillers are used, always make sure they are suitable for parquet. The equilibrium moisture content (EMC) of the different subfloors should not exceed the percentages given in the table below. Moisture should be measured using a **CM tester**, and logged. The percentages given are for a screed thickness of up to 45 mm.

Type of subfloor	Ausgleichsfeuchten
Cement screed	1.8 – 2.0% by CM
Heated cement screed	1.8% by CM
Calcium sulphate screed (0.7 – 1.2% by weight)	0.3 – 0.5% by CM
Heated calcium sulphate screed	less than 0.3% by CM
Calcium sulphate flowing screed	less than 0.5% by CM
Heated calcium sulphate flowing screed	less than 0.3% by CM
Gypsum screed	less than 0.5% by CM
Other subfloors	See comment on DIN 18 356

The parquet should be kept in the room where it will be laid in its original, unopened packaging for at least 48 hours before installation, to give it time to acclimatise. The packaging must be stored horizontally and flat. Do not open packs until just before installation.

The surface temperature of the subfloor should not be less than 15°C at the time of installation; the optimal room humidity is 60%. Do not ventilate during installation. Opened packs must be used up immediately.

How much parquet adhesive you use depends on the condition of the subfloor: approx. 800 – 1,200 g/m<sup>2</sup>. Always apply the adhesive with a notched

trowel. It is important to follow the adhesive manufacturer's instructions. The quantity applied in particular should be adhered to exactly as directed by the adhesive manufacturer.

The first row of elements is laid parallel to the wall, with any unevenness in the wall worked in. Use elements from several packs at the same time to achieve the most uniform overall scheme in the parquet floor.

Press the elements into the adhesive bed, and align. Expansion gaps in the subfloor must be carried through to the floor covering; this also goes for the joints in the door jamb area.

Be sure to observe the maximum permitted EMCs for the subfloor; see the table on the left.

The ideal choice is one of the modern hybrid, SMP or polyurethane parquet adhesives. Since they are solvent and water-free, they do not add moisture and are an economical solution for full-surface parquet gluing on all the usual subfloors.

The information described in the »General« section applies.

For surface treatment, only choose varnishes that have a low side-bonding tendency, such as oil-synthetic resin seals, or oils, oil-wax systems.

### 2 | Installation on hot water underfloor heating

It is possible to install bambeau® industrial parquet on edge 10 over hot water underfloor heating (full-surface gluing).

Observe the following points:

The screed must be heated before beginning installation (even in summer). This also goes for renovating old buildings, if you are laying the floor over old screeds on which another floor covering was previously installed. Start to heat fresh screeds no sooner than 21 days after it has been laid.

**We refer you in relation to this to the information sheet »Preparations for installing floor coverings on heated cement and calcium sulphate screeds«** (»Vorbereitende Maßnahmen zur Verlegung von Oberbodenbelägen auf Zement- und Calciumsulfat-heizestrichen«) and the accompanying measures log, published by the association "Bundesverband Estrich und Belag e. V.", Troisdorf. **You should certainly take a look at these documents.** The accompanying measures log should be used to help with the schedule.

If the screed is a permanently dry type which meets the test criteria of DIN 18356 Part 3.1, prepare the surface for parquet installation in line with the state-of-the-art (e.g. grind, brush, vacuum, prime, smooth).

**A screed surface temperature of approx. 15 – 18°C is required for installation. The relative humidity should be approx. 60%.**

For full-surface gluing of bambeau® industrial parquet on screeds with hot water underfloor heating, we recommend you use a polyurethane parquet adhesive or hybrid adhesive, which the manufacturer has specified as being »suitable for underfloor heating«.

Expansion gaps in the subfloor must be carried through to the floor covering; this also goes for the joints in the door jamb area.

After you have finished installation and the parquet adhesive has set, intermediate heating should be carried out. By gradually heating up the underfloor heating (approx. 5°Celsius per day, up to 25°Celsius parquet temperature) the wood must be dried to a moisture content of 6% – 7% (by weight). Only when the entire cross-section of the element has reached this value should you begin the next steps (sanding, filling, surface treatment).

Like any standard solid wood parquet some gaps may form when laying solid bambeau® industrial parquet over underfloor heating, but intermediate heating can reduce gaps to a minimum.

Choose a surface treatment with a low side-bonding tendency, such as oil-synthetic resin seals; oils; oil-wax systems.

Please also observe the general technical and home-hygiene rules for underfloor heating. Underfloor heating is a low temperature form of heating – for example, the surface temperature of the parquet floor should not exceed 25°C.

Regulating the ambient conditions is a good idea and will help retain the value of all parquet floors. The optimal ranges are a temperature of 18 to 22 °C and a relative humidity of 55 to 65%.

Nonetheless, gaps may and can form during the heating phase.

The information described in the »General« section applies.

## SURFACE TREATMENT

Allow our bambeau® industrial parquet three to seven days to rest after completing installation. This gives dimensional changes in the wood, caused by the structure of the wood swelling due to the new ambient conditions, time to stabilise. Only then should you begin the next steps (sanding, filling, surface treatment).

After installation, the parquet must be sanded and filled. When using a drum sander, sand in a diagonal direction first to even out differences in height left by installation.

Tried-and-tested sanding procedure: Grit 30, 60, 80, 100. After the third pass, fill the joints. Choose your joint-filling agent consistency so that the putty does not become too thin. This will prevent sagging and the tendency for side-bonding. To do so, mix the sanding dust with an oil (for surfaces to be oiled or waxed) or the special joint filling agent from the sealing system. Apply the pasty putty with a filler knife all over the entire surface and smooth off cleanly. After the filled surface is fully dry, find sand. Afterwards, vacuum the floor carefully and apply the chosen sealing system.

Choose the type of surface treatment according to how heavily you expect the floor to be used. It is imperative that you observe the manufacturer's directions for use.

After installing, fix the bambeau® skirting boards to the wall using steel pins or screws.

Transitions to other rooms and floor coverings can be bridged with the bambeau® transition strip.

**Caution: If you, the customer, are treating natural blocks, follow the instructions given by the varnish, oil or care product manufacturer. We cannot accept liability for the outcome of surface treatments undertaken by the customer. The user is responsible for application of the products.**

## CARE INSTRUCTIONS

The parquet must be treated with parquet care products suitable for the particular surface treatment you have chosen. Be sure to follow the manufacturer's instructions. You can use a mop, soft brush or vacuum cleaner for regular cleaning. Damp-wipe the floor; never wet-wipe it.

**Stagnant moisture (puddles of water) must be removed immediately.**

**Like all structural elements made of wood, wooden floors react to moisture. To prevent the wood from swelling or shrinking, please make sure that the ambient conditions are healthy and as constant as possible. The optimal conditions are: a temperature between 18°C and 22°C and a room humidity between 55 and 65%. Experience shows that this humidity is not nearly met during the heating period. To avoid this, we recommend you use a humidifier (evaporator) as of the beginning of the heating period. Constant ambient conditions prevent gaps from forming!**

To protect the parquet floor, place a mat at the entrance. To prevent scratches, fit felt glides on chairs and other furniture. For swivel chairs, you need soft casters as per DIN EN 12529 and a protective mat (polycarbonate mat) placed underneath the castor surfaces. You should not carpet a newly sealed parquet floor for approx. two months.

## NOTE

bambeau® bamboo parquet is a natural product. Colour variation in the parquet elements is typical and is caused by location-specific lignification of the raw material. Use elements from several packs at the same time to achieve the most uniform overall scheme in the parquet floor.

### State of the art at: October 2007. Subject to change

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