

Bamboo parquet and underfloor heating compatibility

The very nature of bamboo's fibres and cellulose gives it high strength and good thermal conductivity ($R=0.0072$ K/w), making it compatible with heated or cooled floors (subject to conditions – see the manufacturer's technical data sheets). The 3-ply cross-laminated construction increases the stability of the parquet.

A parquet suited to heated floors

Most ootouch parquets can be combined with conventional underfloor heating systems, i.e. so-called « dry » or « wet » underfloor heating, and always at low temperatures (27 °C maximum). For compatibility by product, please refer to our website or technical data sheets. ootouch parquets are manufactured and delivered with a moisture content between 6 and 9.5 %. It is recommended to install at a temperature of **18-21 °C** and a relative humidity of **40 to 65 %**. The use of a thermometer and a hygrometer is strongly recommended.

Nevertheless, underfloor heating will dry out your parquet more than under normal conditions. This may lead to gaps or cracks, or even cupping. To minimise this risk, keep the ambient humidity between 40 and 65 %.

Installing over a heated floor: the golden rules

For bamboo, as for any other wood species, it is important to observe certain rules, both before and during the installation of the parquet, and afterwards during final use.

- 1 **The screed** is a key element for the successful combination of a parquet and underfloor heating. It must be thoroughly dry, i.e. have a moisture content of **2.2 % maximum** for standard screeds. It is always preferable to request a carbide test at several points in the room before installing the parquet.

- 2 **Drying** of the natural floor must be completed by switching on the heating. Refer to the heating manufacturer's instructions. It is extremely important that the bamboo parquet can acclimatise for **3 to 7 days** in the usual conditions of the room where it will be installed, provided the room meets the installation/living standards.
- 3 **Installation** is carried out with an adhesive suitable for parquet on underfloor heating.
- 4 **Specialist:** we strongly recommend using a parquet fitter who is well acquainted with the rules to be observed for installing parquet over underfloor heating. These rules must be clearly communicated to the end user, as misuse will cause damage to the parquet, and it is then the fitter who will be held responsible.
- 5 **Humidity:** the moisture level of rooms with a parquet on underfloor heating must be kept between 40 and 65 % to limit drying of the parquet. A room humidifier is sometimes advised.

Installing over a cooled floor: the golden rules

The same rules as for installation over underfloor heating apply, with one additional constraint: installation is only possible if the cooling floor is fitted with an **anti-condensation device**.

Additional recommendations

- Placing a rug can affect the surface temperature (heat build-up) and cause gaps between boards, small cracks or even cupping.
- Depending on the parquet's finish, please refer to the maintenance instructions available on our website.
- Even by following all the above recommendations, every site is a special case with its local conditions, some of which may be beyond the manufacturer's control. In case of doubt, contact your ootouch dealer.