

### **Ipowood / Wicanders multi layer parquet on heated subfloors**

It is technically possible to install Ipowood / Wicanders multi layer parquet with a thickness of 10 – 15mm and a width not bigger than 190mm on a floor heating system (DIN EN 1264). Preparations and installation and must be done according to the state of the technology and under the below mentioned pre-conditions:

The thermal resistance for floor coverings on floor heating systems – including underlay – should not exceed 0,15m<sup>2</sup>K/W according to DIN EN 1264.

If feasible, a glue-down installation with a suitable and high quality parquet glue which does not bring additional moisture into the wood material is usually recommendable.

The thermal resistance of 14,5mm or 15mm thick Ipowood multi layer parquet with an approx. 3,5mm / 4mm thick oak wear layer amounts to approx. 0,10 – 0,12m<sup>2</sup>K/W without underlay. The thermal resistance of 10mm Ipowood multi layer parquet amounts to approx. 0,08m<sup>2</sup>K/W without underlay.

As wood reacts to changes of the surrounding climate, floor heating can cause increased drying during the heating period. This usually results in shrinkage of the wood which can be noticed by small joints between the elements. High surface temperatures and a disadvantageously dry climate, particularly directly over the wood flooring, can lead to open joints, deformations and even cracks in the parquet elements.

Thus, a small width of the parquet elements is preferable to minimize the aforementioned effect.

Furthermore, a room climate of approx. 20°C and approx. 40-60% rel. humidity must be maintained at all times for health reasons and also due to the aforementioned.

The temperature of the subfloor must never exceed 27°C.

The temperature of the parquet surface must never exceed 26°C .

Multi layer parquet with a wear layer of beech, maple, kempas or jatoba is not suitable for the installation on heated subfloors due to a relatively low dimensional stability of the aforementioned wood species. Furthermore, bamboo parquet is not suitable for the installation on heated subfloors.