

## **Installation on a floor with underfloor heating**

Due to special manufacturing technique Karelia parquet is suitable to be installed on a floor with underfloor heating.

Prior to installation it has to be decided whether Karelia parquet will be laid as a floating floor or glued to the subfloor. Both methods are from the technical point of view possible, but a glued floor transmits heat better into the room. The capacity of heat transmission varies (see surface temperature diagrams).

In order to avoid uneven swelling and shrinking of the floor (flooring material) the total area of the woodflooring shall be heated.

Beech and birch are not recommended for floors with underfloor heating due to higher movement of timber based on timber's own properties.

Please pay attention to very important points in connection with underfloor heating, which are not contained in our standard installation instructions.

### **1. Prior to installation**

Allow two weeks' standing time for concrete to dry out. Switch on the heating starting at minimum and raising the temperature daily by approx. 5 degrees C until the heating reaches two-thirds of maximum. This action has to be taken both in summer and winter. Ventilate the room well.

Run the heating at maximum during the last few days before installation. Duration 1 day per 1 cm cast form thickness.

Two days prior to the installation switch off the heating or in cold weather reduce it to 15 - 18 degrees C surface heat.

### **2. Floating installation**

Check that the surface is level (see installation instructions)

Check that the subfloor is sufficiently dry; 80 % of relative moisture or 3.0 weight-%.

Spread 0.2 mm thick plastic membrane on the subfloor overlapping 200 mm or with joints taped. On top of the membrane, spread a corrugated cardboard or other porous soundproofing material. When using Tuxplex as sound isolation, you will not need any additional humidity isolation.

Lay the Karelia according to our installation instructions.

Fix the skirting boards in place with screws or nails and screw down

# Karelia®

## Wood Flooring

thresholds and apron pieces. When fixing thresholds allow 10 mm gap around fixing screws.

### **3. Installation on the subfloor by gluing**

We recommend that the gluing should be done by a professional installer.

Switch off the underfloor heating about one day prior to the installation.

Check that the subfloor is dry enough, 60 % of relative moisture or 1.5 weight-% of concrete mixture content.

Check that the subfloor is absolutely level, maximum deviation allowed  $\pm 1,0$  mm within the space of 2 metres.

If the surface has to be levelled, make sure that the levelling compound has completely dried.

Glue the Karelia onto the surface by using a 5 mm comb spreading spatula and a bitumastic-based adhesive having a very high dry matter content, min. 73 weight-%. Suitable glues are PVA, two-component or resin. Glue the boards on tongue and groove according to installation instruction. Glue application at the most 500 gr/m<sup>2</sup>.

To hold the fitted parquet down while it dries, place weights on the surface. If available, unused packages are ideal for this purpose but any similar object will suffice. Pay special attention to areas where there is likely to be heavy foot traffic, i.e. entrances and walkways. Remove the weights when the glue has dried. If there are traces of glue stain on the surface, remove immediately with a damp cloth.

### **4. After the installation**

Wait 12 - 24 hours and then switch on the underfloor heating. Raise the temperature so that a maximum temperature is achieved within five days.

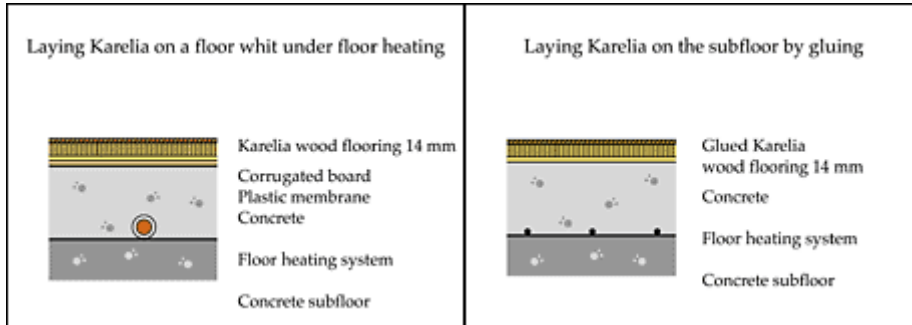
Then adjust the underfloor heating so that the wooden floor surface temperature does not exceed + 27 ° C.

The ambient air humidity must be kept at 40 - 60 %. Recommended room temperature is 18 degrees C to 24 degrees C. If these conditions are not observed, abnormal movement may occur. The manufacturer, seller or installer cannot accept any responsibility for such occurrences, nor are they covered by the guarantee.

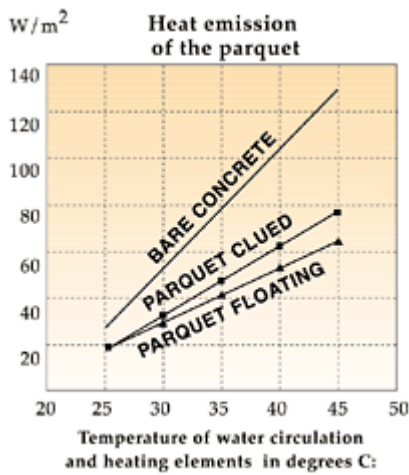
For additional information, contact your retailer.

# Karelia®

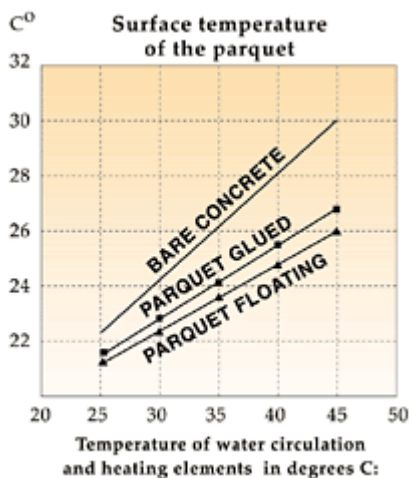
## Wood Flooring



Karelia wood flooring can be installed with electrically heated floors or floors with warm water circulation systems. Karelia can be laid either as a floating floor or glued to the subfloor.



Heat emission of bare concrete floor, wood flooring glued to the subfloor and floating wood flooring, when the room temperature is + 20 ° C.



Surface temperature of bare concrete floor, wood flooring glued to the subfloor and floating wood flooring, when the room temperature is + 20 ° C.