

## Click

### Floorcooling and -heating

#### English

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## General

All Pergo vinyl floors can be used in conjunction with “low temperature” underfloor heating, under the conditions mentioned below. This is true for underfloor heating systems with heating components – hot water or electric – embedded in the floor. Heating films or other “new” systems that are placed ON the screed or wooden sub-floor are not suitable for Pergo vinyl flooring.

The underfloor heating must be installed in accordance with the supplier’s instructions and the generally accepted instructions and rules. Of course, the general installation instructions for Pergo vinyl flooring without underfloor heating also apply, unless explicitly mentioned below.

The maximum allowed heat resistance (R) of the floor covering in combination with floor heating is 0.15 m<sup>2</sup>K/W (EN 4725). In combination with floor cooling the maximum heat resistance is 0,09 m<sup>2</sup>K/W. The respective values for Pergo are as follows:

<b>Installation type</b>	Clicked installation combined with a Pergo vinyl underlay (= 1 mm)
<b>Floor thickness</b>	4,5 mm
<b>Heat resistance</b>	R: 0.044 m <sup>2</sup> K/W

## Concrete or screed sub-floor

The type of screed and the installation method, combined with the underfloor heating, must comply with the instructions of the suppliers of the screed and the underfloor heating system.

To obtain a homogeneous heat distribution across the entire floor, the distance between the heating elements must not be greater than 30 cm. The depth of the elements is determined by the fitter of the underfloor heating.

The sub-floor must be sufficiently DRY across its complete thickness when installing the floor covering. This is maximum 1.5% according to the CM method for cement-bound floors and maximum 0.3% for anhydrite-bound screed. This can only be guaranteed, when installed in new buildings, by starting up the underfloor heating. Start up the underfloor heating gradually at least two weeks before laying your vinyl, and minimum 21 days AFTER laying the screed (max. 5°C per day):

- » At 50% of the capacity for 2 weeks
- » At 100% for the last two days

If you can leave the heating on for longer, this is even better. For newly spread screed, follow the guidelines of your installer for the startup period. A heating protocol should be presented. Ask for it if necessary.

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## Instructions

BEFORE laying the floor, turn off the heating completely **for at least 24 hours**.

AFTER laying the floor you must wait **at least 48 hours** before restarting the heating. This should be done gradually (5°C/day). The maximum permitted contact temperature under the Pergo Vinyl floor is 28°C. The maximum hot water temperature at the exit of the heating furnace is 45°C.

ALWAYS change the temperature **gradually** at the start and end of a heating period. Make sure that the climate conditions in the rooms are ALWAYS kept between 18-25°C and 45-65% relative humidity:

- » Always avoid heat accumulation by carpets or rugs, put on the floor, or by leaving insufficient space between furniture and the floor.
- » Changing temperatures during different seasons can cause changing in dimensions.

## Floor cooling

To avoid damage to the floor, the supply temperature of the cooling water must not be reduced below a certain temperature, the so-called dew point temperature. Lower temperatures will produce condensation and will damage your flooring construction.

Thermostats in the room must never be set at a temperature which is 5°C lower than the room temperature. So at a room temperature of 25°C, the room thermostat must not be set lower than 20°C. The cooling circuit must have a control that prevents the temperature of the cooling liquid dropping below 18 to 22°C. This depends on the climate zone where the floor is installed. In zones with a high relative humidity, the minimum is 22°C; at average humidity and temperature levels, it can go as low as 18°C. If you do not respect these instructions, the warranty on the Pergo vinyl floor is void.

If you have further questions or problems, please do not hesitate to contact our technical department:

**UNILIN FLOORING, TECHNICAL SERVICES**  
Ooigemstraat 3 - 8710 Wielsbeke - Belgium, Europe  
Tel: +32 (0)56 67 53 97  
Fax: +32 (0)56 67 52 39  
Email: [technicalservicespergo@unilin.com](mailto:technicalservicespergo@unilin.com)