

General instructions

All Pergo Vinyl floors can be used in conjunction with „low temperature“ underfloor heating, under following conditions. This is true for underfloor heating systems with heating components - hot water or electric – embedded in the floor. Heating films or other “new” systems 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. The general installation instructions for Pergo vinyl floor without underfloor heating also apply of course, unless explicitly mentioned below.

With floor heating and cooling systems it is recommended to lay a Pergo underlay with built-in moisture barrier or begin with a separate plastic film of minimum 0.2 mm thick. In this case, use a single sheet of plastic foil, or use several sheets but make sure they overlap at least 20 cm and tape them together.

The maximum allowed heat resistance (R) of a floor covering in combination with floor heating is 0.15 m²K/W (EN 4725). In combination with floor cooling the maximum heat resistance is 0,09m²K/W.

The respective values for Pergo are as follows. R is the total heat resistance of respectively 2.5 and 5 mm vinyl combined with the respective underlay or glue.

optimum	premium
2,5 mm glued down	5 mm on Pergo Vinyl underlay
0.0132 m ² K/W	0.058 m ² K/W

Make sure you have the necessary expansion joints around the perimeter of the room.
We recommend lengths/widths of maximum 13m.

Concrete or screed as 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° per day).

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

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.

The heating in general

Start the floor heating at least two weeks before laying your Pergo Vinyl floor. Raise the temperature gradually by no more than 5°C per day. The maximum 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 the room temperature is ALWAYS kept between 18°C and 25°C

Always avoid heat accumulation by carpets or rugs or by leaving insufficient space between furniture and the floor.

Floor cooling

More and more systems that combine heating and cooling are being installed in homes. A combination of heating in winter and cooling in summer can for technical and physical reasons be problematic in combination with organic floorings in general and with vinyl in particular.

The installation instructions for Pergo Vinyl on underfloor heating without cooling also apply here of course.

However, it is important that floor cooling systems are equipped with an advanced control and safety system in order to prevent internal condensation (dew point regulation). 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 in the floor and damage the vinyl: warping, distortion, swelling and gapping.

An effective control system consists of automatic probes that can detect when the dew point (= when condensation starts) is reached under or in the vinyl, and then switch the cooling off. Room thermostats should never be set under 24°C. In addition, thermostats must never be set at a temperature which is 5°C lower than the room temperature. So at a temperature of 32°C, the room thermostat must not be set lower than 27°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.

A heat resistance of less than or equal to 0.09m²K/W is normally recommended for floor cooling. The heat resistance of our Pergo Vinyl floors combined with our Pergo Vinyl Underlays can be found above. In some cases you need to take into account a certain loss of capacity.

We trust we have provided sufficient information. If you have further questions or problems, please do not hesitate to contact our technical department.

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