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24h water resistant

water resistant laminate floors

WAVE

Floor heating manual

Wave laminate can be installed with floor heating and/or cooling, but some important remarks have to be considered to protect your laminate and have the best result of your heating system. Both waterborne and electrical systems are compatible with laminate as a part of the subfloor construction.
For the installation of Wave laminate on a subfloor with floor heating, our general installation instructions on the box inlay still apply. In addition to the general instructions, this is our floor heating specific advice:

1. What you should know before the installation

In case of electrical heating systems, the capacity of the heating elements **should not exceed 60 W/m²**. Multiply the m² of the surface with 60 to find out the maximum allowed effect of the heating elements.
For example : 26 m² x 60 W/m² = 1.560 W => Choose a heating system with a max. capacity of 1.500 W.

The maximum allowed **surface temperature** on the Wave flooring is **27 °C** (80 °F). For waterborne heating systems this means that the supplier of the heating system must calculate what the maximum incoming and outgoing water temperatures should be to make sure that the surface temperature stays below 27 °C (80 °F). Additionally, an IR-sensor for constant measurement of the surface temperature is recommended. Be aware that loose rugs and mats may function as heat accumulators.

If only a part of the floor has floor heating, but your laminate continues in areas without floor heating, these areas always have to be separated by **expansion profiles**. The heated and non-heated areas will otherwise react differently due to difference in surface temperature.

You always need to install a **moisture barrier** (ageing resistant polyethylene foil) with a minimum thickness of 0.2 mm to prevent any condensation damage to your laminate. This moisture barrier can be integrated in an underlay, or it can be laid separate.
We recommend to use an underlay with low insulating property for the best performance of your floor heating.
Note: When installing a Wave laminate floor **on heating foil/mats** (equipped with a soft heat-reflective underlay/insulating boards) no other underlay must be used.

The **thermal resistance** of a floor used in combination with underfloor heating should not be higher than 0.15 m² .K/W.

Systems that combine both **floor heating and cooling** need special attention because of the risk of condensation, which could cause damage to the laminate. If the temperature of the the cooling water drops below the so called 'dew point', it will cause condensation which can lead to swelling, gapping, distortion and warping of the laminate.
To protect the quality of your laminate and to ensure that your laminate warranty remains valid, make sure that:

- the water temperature never goes below 18 °C - 64 °F
- you limit the temperature difference between the floor and the surroundings to 6 °C - 42,8 °F
- your cooling system is equipped with an automatic anti-condensation control system that adjusts the temperature of the ingoing water

Always ask your supplier of the heating/cooling system if it is compatible with laminate flooring and if he is able to meet all the necessary requirements prior to installation!

2. Preparation before installation

The floor heating should be switched off 2 to 3 days before installing the laminate. Install the laminate at room temperature (between 18 °C and 20 °C – 64 °F and 68 °F).

The subfloor must be dry:

- concrete and light concrete floors should have a max. of 2,0 % according to the CM method (RH <85 %)
- plaster based flooring maximum 0,5 % according to CM method

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Install a moisture barrier and underlay according to the instructions above.
Install your laminate (free floating with expansion gaps) according to the installation instructions on the inlay in the box.

2. After the installation

When the installation of the Wave laminate is finished, or if the heating system have been turned off for a long period of time, consider that:

- the first week the heating system should be set on a low temperature, 18-22 °C (64-72 °F)
- the following week the temperature can be increased gradually

N.B.: A too fast heating-up process will result in an extensive drying-out of the floor which can cause warping/ shrinkage of the floor boards.

Scan the QR for a technical datasheet and more info on installation, care and maintenance and warranty.