



UNDERFLOOR HEATING SYSTEM

Luxfloor laminate floors can also be laid without difficulty over hot water underfloor heating. However, the evidence at the moment suggests that Luxfloor laminate flooring is not suitable for use with electric underfloor heating.

To achieve adequate heat loss into the room being heated, the thermal resistance should not exceed $0.15 \text{ m}^2 \text{ K/W}$.

The **thermal resistance** of Luxfloor laminate flooring is $0.06 - 0.09 \text{ m}^2 \text{ K/W}$, making it highly suitable for this application. If the heat demand exceeds **65 Watt/m²**, you are recommended to use additional heat sources.

When Luxfloor laminate flooring is installed as a floating floor, it is essential to take account of the thermal resistance of the impact sound insulation when determining the overall thermal resistance.

Because Luxfloor laminate flooring is so naturally warm to the touch, the underfloor heating can also be switched off sooner when the seasons change. This means lower heating costs! Similarly your new floor over the underfloor heating provides a more even surface temperature.

In other words: laminate flooring is ideal for your underfloor heating! However, please follow these laying instructions:

The screeds must be laid correctly in accordance with DIN standards. Before the laminate flooring is laid, all mineral subfloors must be heated sufficiently to prevent harmful moisture being released later. This heating process must be carried out in all seasons, in summer as well as winter. Cement screeds can be heated after being left to dry and cure for three weeks, whereas anhydrite screeds can be heated after just one week.

The heating capacity is gradually increased to the maximum heating capacity in daily 5° C increments. It is important also to follow this procedure whenever the heating is switched on at the start of the season. The length of time the heating must be run at full capacity depends on the type and thickness of the screed.

Cement screed:	per cm of screed thickness:	1 day
Anhydrite screed:	per cm of screed thickness:	2 days

After this period of full capacity, the heating is gradually turned down in daily 5° C increments. For safety reasons, the heated screed is left without heating for 5-7 days (see appendix) and then reheated. If the heating and cooling procedure is carried out by the heating contractor, the contractor must automatically keep a heating log and issue a copy to you. If you do not receive a heating log, you should always express your misgivings in writing.



Before the laminate is laid, a CM tester must be used to determine moisture levels at the sites indicated by the screed contractor or heating contractor. Permitted moisture levels:

Cement screed:	max. 1.8 CM %
Anhydrite screed:	max. 0.3 CM %

Very important: to verify the dryness of the screed slab, lay out several pieces of PE film (approx. 50 cm x 50 cm) and secure the edges with adhesive tape. Leave for 24 hours, and if no condensation has formed underneath the film, and the covered parts of the screed remain the same colour, you can be sure that the screed is dry and laying work can begin.

The heating must be switched off for one or two days before laying. For laying, the surface temperature of the screed must be at least 15° C, but no more than 20° C.

Please note: cover the entire screed with PE film with a thickness of at least 0.2 mm to act as a moisture barrier. Overlap the film widths by at least 20 cm and seal them. The widths must be drawn up 5 cm at the walls. Your preferred impact sound insulation is then laid on top of the PE film. The laminate floor will be subject to increased thermal load, which means that the tongue and groove joints must be glued even in glueless systems.

After a curing time of 24 hours, the underfloor heating is gradually increased to the desired output in increments. **Important: the same applies whenever the heating is switched on at the start of the season.**

There is one more basic rule you need to follow: the surface temperature of your laminate floor should not exceed 26° C. The ideal room temperature while the heating is on is 20 - 22° C, with air humidity of 50 - 60%.

If the room conditions cannot be kept constant, small cracks may form. Crack formation is not the result of defects in the material—it is simply caused by the natural characteristics of solid wood and wood-based materials. The phenomenon is especially related to changes in indoor conditions.

The instructions and details in this information sheet are correct to the best of our knowledge and reflect the state of the art. They are intended for information and as non-binding guidelines. No warranty claims may be derived from this information sheet.

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HEAT-UP LOG

LUXFLOOR Flooring

Building:

1. The screed works ended on _____

A _____ screed was laid

The average thickness of the screed is _____ cm

2. On _____ the underfloor radiant heating system was put into

operation, with daily temperature increments of 5° C

The maximum flow temperature reached was _____ ° C

This maximum temperature was maintained for _____ days with no temperature reduction at night

Between _____ and _____ the temperature was reduced in 5° C increments

Between _____ and _____ the heating was switched off

On _____ the underfloor radiant heating system was again heated up to a maximum flow temperature of _____ ° C, with temperature increments of 5° C at midday each day

This maximum temperature was maintained for _____ hours with no reduction

On _____ the heating was reduced to 15-18° C, in maximum daily decrements of 10° C, to prepare for laying Luxfloor laminate flooring

3. During the heat-up and cool-down phases, the rooms were ventilated and draughts were avoided: **Yes / No**

The heated floor surface was free of building materials and other coverings/items: **Yes / No**



Confirmations

for the owner/client:

(Place/date)

(Stamp/signature)

for the architect:

(Place/date)

(Stamp/signature)

for the heating contractor:

(Place/date)

(Stamp/signature)