

[■■■] 3-layer floors

[■■] 2-layer floors

on underfloor heating

The following floors are **not suitable** for installation on underfloor heating:

Larch Country / Larch Country Vulcano / Larch Virgin / Larch Virgin Vulcano.

Preparatory measures for installation of **mafi** naturalwoodfloors on heated screeds:

The screed must always be pre-heated before beginning installation work (even in summer). The same applies to refurbishing in old buildings when installing on old screed on which other floor coverings have previously been installed. A record of the initial thermal cycling must be supplied by the heating engineer.

A screed surface temperature of approx. 15 - 18°C is required for installation. On completion of the installation work, this temperature must be held constant for three days (to allow the adhesive to harden).

A primer must be applied according to the manufacturer's guidelines to screed laid during construction to the applicable standards. For gluing to screed use commercial-grade, non-slip adhesives and primers that are described by the manufacturer as "suitable for underfloor heating". It is the installer's duty to check the surface temperature, to install a temperature indicator in an exposed position and to record the results.

Due to the technical properties of the natural product wood and the conditions of the room climate during the heating period, gaps may occur. Generally speaking, these are evenly distributed, do not rate as defects, and must be tolerated.

When the heating is switched on for the first time, and at the beginning of every season when heating is in use, increase the heat only gradually! We recommend reducing the surface temperature before cleaning the wooden floor. With a room temperature of 21°C the floor's surface temperature should be maximum 27°C. Cracks may form more frequently on carpets or furnishing that stands directly on the wooden floor due to the higher temperature of the surface.

Typical values for thermal resistance are:

10 mm	conifer floors	0.08 m ² K/W ²	16 mm	hardwood floors	0.13 m ² K/W ²
10 mm	hardwood floors	0.10 m ² K/W ²	19 mm	hardwood floors	0.16 m ² K/W ²
16 mm	conifer floors	0.11 m ² K/W ²	21 mm	conifer floors	0.16 m ² K/W ²

Please take into consideration:

For sufficient heat transmission to the room the thermal resistance should not be greater than 0.17 m² K/W².

The insulating underlay must also be taken into consideration.

(e.g. rubber cork matting 2 mm = 0.025 m² K/W²).

mafi planks on heated screed

Record of installation data

Building: _____

Storey: _____

Screed work concluded on: _____

Screed material left over _____

In the centre the screed thickness is approx. _____ cm.

Days:	1. - 21.	Curing time of the screed without heat is 21 days:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	22.	heated up to +25°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	23.	" " +30°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	24.	" " +35°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	25.	" " +40°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	26.	" " +45°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	27. - 33.	gheated continually at +45°C:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	34. - 37.	underfloor heating reduced by 5°C per day:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
until	37.	+25°C was reached:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	38. - 44.	heating switched off	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	45.	heated up to +30°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	46.	" " +35°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	47.	" " +40°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	48.	" " +45°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	49.	reduced to +35°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
"	50.	" " +25°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>
from	51.	installation begins at +25°C flow temperature:	yes	<input type="checkbox"/>	no	<input type="checkbox"/>

This data applies for screed up to 70 mm thick.

While the heating has been increased and reduced, the rooms have been ventilated but draughts avoided. The heated floor area was free of building materials and other covering. The underfloor heating will remain in operation at a flow temperature of +25°C until installation is complete. 5 days later the underfloor heating can be switched to normal operation. When in use, make sure that the temperature in the room is approx. 20°C +2°C and relative humidity is 40 - 50 %. The values indicated have a great influence on the swelling and contraction of parquet flooring.

A guarantee can only be given if the Record of Data concerning heating has been completed and signed. Our special instructions for installation must be observed for floating installations and installations glued over the full surface.

Place, Date: _____

Signature: Client / Architect

Stamp / Signature: Heating Installers

mafi planks on heated screed

Record of data for initial thermal cycling

(The appropriate information must be filled in by the client and/or architect and submitted to the specialized company on time)

Client: _____

Building site: _____

Building section / Storey: _____

- [1] a) flowing screed *CF 225 (20)* *CF 300 (30)* Underfloor heating system:
 b) Total thickness of screed in centre: cm

Before laying screed:

- [2] a) The controlled lowest temperature of °C has been maintained since
 b) Start of screed work on
 c) End of screed work on

After laying screed:

- d) The controlled lowest flow temperature of °C after screed laying has been maintained since.....
 e) Heating up of flow temperature started on
 f) The max. flow temperature of °C was reached on
 g) Cooling down started on
 h) The lowest controlled flow temperature was reached.....
- [3] a) During thermal cycling the rooms were *free* *not free* of building material or excessive coverings.
 b) During the day the rooms were: *ventilated* *not ventilated*
 c) During initial thermal cycling, all heating circuits were: *on* *not on*
 d) Control of the lowest flow temperature and initial thermal cycling was carried out by the responsible person,
 Mr.
 from (company)

- [4] a) The Record of Data was approved by the client/developer on..... and forwarded to the following specialized companies:
 Screed layer *Tile, panel and stone layer*
 Parquet installer / Wood block installer *Floor installer* *Heating engineer*
 Others

[5] **Residual moisture**

Tested by: on: Result: CM-%

Architect / Specialist / Site management

Stamp/ Signature

Place / Date _____

The Developer / Client

Stamp / Signature

Place / Date _____