

## Installing timber flooring over underfloor heating guide

 3-layer floor     
  2-layer floor

The following mafi floors are **not suitable** for installation on underfloor heating:  
 Larch Country | Larch Country Vulcano | Larch Virgin | Larch Virgin Vulcano

### Preparatory measures for installation of floors on heated screeds:

Mafi, Grato, Doppio, WOW & Woodos flooring can be installed over underfloor heating. The following must be followed: The screed or slab should have a MPA value greater than 28 when the flooring is installed and all manufacturers instructions should be followed:

1. Ensure the slab or concrete screed has cured for a minimum of 21 days
  2. Apply Sikafloor 01 Primer to the slab or concrete screed
  3. Apply Sikafloor Level Ultra over the primer with thickness between 30mm to 50mm in a single application and allow to harden as per sika data sheet.
  4. Apply Sikafloor 01 Primer to the hardened Level Ultra
  5. Full trowel Sika T58 floor adhesive directly onto the Sikafloor Level Ultra to adhere the flooring
- The screed & Leveller 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 should be held constant for three days (to allow the adhesive to harden).

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 to 21°C before mopping & cleaning the wooden floor. Cracks may form in the flooring more frequently on areas where carpets or furnishing stand 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 <sup>2</sup> K/W <sup>2</sup>	15mm	hardwood floors	0.13 m <sup>2</sup> K/W <sup>2</sup>
10 mm	hardwood floors	0.10 m <sup>2</sup> K/W <sup>2</sup>	19 mm	hardwood floors	0.16 m <sup>2</sup> K/W <sup>2</sup>
16 mm	conifer floors	0.11 m <sup>2</sup> K/W <sup>2</sup>	21 mm	conifer floors	0.16 m <sup>2</sup> K/W <sup>2</sup>

#### Please take into consideration:

For sufficient heat transmission to the room the thermal resistance should not be greater than 0.17 m<sup>2</sup> K/W<sup>2</sup>. The insulating underlay must also be taken into consideration. ( e.g. rubber cork matting 2 mm = 0.025 m<sup>2</sup> K/W<sup>2</sup> ).

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### Record of installation data

Address: \_\_\_\_\_

Building Section / Areas: \_\_\_\_\_

Slab or Concrete screed completed on: \_\_\_\_\_

Leveller completed on: \_\_\_\_\_

In the centre the leveller thickness is approx \_\_\_\_\_ cm.

### Slab thermal cycle

Days:	1. 21.	Curing time of the concrete slab without heat is min 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.	heated 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 +25°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"/>

### Please take into consideration:

While the heating has been increased and reduced, the rooms have been ventilated but drafts avoided. The heated floor area was free of building materials and other covering. The underfloor heating can be turned off after slab thermal cycle . 5 days prior to installation turn on the heating to a flow temperature of +25°C until installation is complete. 3 days later the under-floor 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/Builder/Installer

Stamp / Signature: Heating Installers

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