



# TIMBERLINE

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## FLOOR HEATING INSTRUCTIONS

Subfloor heating guidelines for the following floors:

- Original Chapel Parket / Antico / Cathedral / Tate / Brute / Exclusive In Between floors 15 and 20 mm
- AvanceFloors engineered floors 15 and 20 mm

### ***General information***

- A subfloor heating system is a “slow” system. It takes longer for a room reach the right temperature and also for the heat to leave the room again.
- The heating pattern of the occupants is very important; the more stable the better this is.
- Too much heat causes the wood to dry out and shrink. Rapid and major fluctuations in temperature can damage the floor.
- Carpets and rugs can cause heat to build up with possible result in shrinkage joints and cracks.

### ***Installation method***

- The boards can be glued down directly on the cement screed. Make sure the cement screed is level.
- The cement screed must be at least D20 cement. Maximum height difference is 2 mm over 2 meters
- We recommend to always use a primer and/or a liquid moisture barrier of the same brand as the adhesive
- Install the floor according the Glue Down Installation guidelines.
- Make sure that pressure is applied on the boards for 24 hours after being glued in place, using at least a 20 kg weight per m2.

### ***Heating up before installation of the floor***

- The concrete screed should be at least 42 days old
- Set the temperature on 20°C on the first day of use and then raise it by 5°C every day.
- Make sure that the supply water temperature does not exceed 45°C.
- Maintain the maximum temperature for at least 24 hours per centimetre of floor thickness.
- Lowering the water temperature should also be in increments of 5°C every 24 hours until a water temperature of 20°C has been reached.
- The entire heating process takes 14 days.
- Ensure good ventilation during this period to allow moisture to escape.
- After the process check the cement screed for residual moisture.
- Maximum moisture in cement screed is 1,8% (or 3,0% if a liquid moisture barrier is used)
- Maximum moisture in anhydrite floor is 0,3%.

### ***Heating up after installation of the floor***

- During installation the temperature of the cement screed must be between 15°C and 18°C.
- Maintain this temperature for at least 5 days after installation.
- After these 5 days the temperature can slowly be raised (1°C or 2°C per day) until the desired, or maximum permissible temperature is reached.
- The maximum contact temperature of the cement screed is 28°C.
- The contact temperature is the temperature of the surface of the cement screed, measured 3 heating days after setting the temperature.



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## ***Heating during the season***

- Raise the temperature very gradually at the start of the heating season. Max 1 or 2°C per day.
- Lower the temperature very gradually at the end of the heating season. Max 1 or 2°C per day.
- To keep the floor as stable as possible, do not create any difference in day and night temperature.

## ***Technical Values***

- |                                       |                          |
|---------------------------------------|--------------------------|
| - Rc Value of 20 mm board             | 0.118 m <sup>2</sup> K/W |
| - Rc Vaue of 15 mm board              | 0.088 m <sup>2</sup> K/W |
| - Thermal Conductivity of 20 mm board | $\lambda = 0,17$ W/mK    |
| - Thermal Conductivity of 15 mm board | $\lambda = 0,17$ W/mK    |