

Underfloor heating system

General

Boen Parkett flooring is an ideal floor covering for placing on top of under-floor heating systems. It looks attractive and has favourable thermal resistance properties.

General information

A well-functioning under-floor heating system, hot water or electrical, results in ideal thermal distribution throughout the area to be heated, giving maximum comfort. It is therefore necessary for the floor-covering to have good thermal conductivity, i.e. low resistance to heat transmission.

There are many different types of under-floor heating systems available, e.g. electric cable, hot water pipes and low voltage foils, the majority of which

can be used together with Boen hardwood flooring.

For concrete screeded floors, Boens 15mm (for glue-down or floating) or 10mm Prestige (for glue-down only) should be used. Pipes and cables must be covered with a min. of 30mm concrete. This process must be carried out by professionals.

Major requirements concerning concrete screed

The screed must be laid according to contractual specifications and Planning Authority requirements. When overlaying screed, moisture must not exceed 1,5% CM or max. 90° RH when the hardwood flooring is laid. Ideally the screed will have been laid at least 4 weeks prior to the heating system is being used. The first time the heating system is used it should be run at 2/3 output for at least 2 weeks so that escaping moisture can evaporate without causing damage and the screed can dry and attain its final moisture content.

1 week before the hardwood flooring is laid the heating should be reduced to approx. 18°C / 64°F.

Laying Boen Parkett

If the heated under-floor is a concrete screed, this should first be covered with a layer of suitable non thermal resistant underlay as a compensation layer and for muffling step sound. The electrical cables or waterpipes must be covered by 30mm reinforced concrete / levelling screed.

For Sports Floors, Boflex PI special requirements apply, please contact Boen Bruk AS.

Before laying commences refer to Boens' Laying Instructions for floating floors which provides specific details of site requirements.

Preference should be given to fully adhering the boards directly to the subfloor. However, the boards can be glued continuously along the tongue and groove using a suitable adhesive.

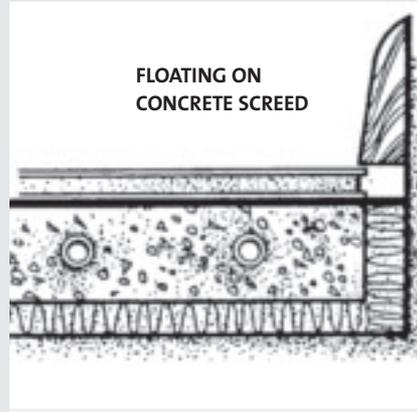
The hardwood flooring boards, which are pre-packed in a heat-shrunk wrapper, must not be opened until immediately before they are laid. About two days after the parkett has been laid, the temperature of the under-floor heating system may be gradually raised over a period of one week until the desired temperature has been obtained.

The under-floor heating system must be regulated to ensure a max. effect of 60W/m² with a sub-floor surface temp. not exceeding 28°C / 83°F, with a room temp. of 20-22°C / 68-72°F. RH should be maintained between 40-60%. Heat must be evenly distributed under the hardwood flooring. No carpets with insulating effect must be used on top of the floor as this accumulates heat.

FURTHER INFORMATION

Further advice and technical information is available by contacting Boen Bruk AS.

15mm Parquet
Moisture barrier 0,20 mm
Suitable underlay
Concrete screed
Heating tube or cable
Insulation



Thickness	Thermal Resistance	Thermal Conductivity
10mm	0,07 m ² K/W	0,15 W(mK)
15mm	0,10 m ² K/W	0,15 W(mK)
23mm	0,18 m ² K/W	0,15 W(mK)
Boflex	0,27 m ² K/W	0,09W(mK)