Technical information:

Installation above floor heating system

Heating system:

Hot water heating system with low flow temperature (35-40°C).
Other kind of floor heating systems have to be defined and released by the producer.
Cooling of the room by that sytem isn´t allowed.

Guidelines:

- Underfloor/ Screed:
  - Max. moisture of heated screed:
    - Cement screed: ≤ 1,8% (CM= calcium-carbid-measurement)
    - Anhydrite screed: ≤ 0,3% CM
    - Magnesia screed: ≤ 3% CM
  - Planess of screed: ≤ 3mm/ meter in sufficient strength
  - Max. temperature above screed before of installing the floor: 29 °C
  - Documentation of professional heating up – process and of moisture control

- Installation:
  - Gluing of wooden parquet to the screed only; no floated installation
    - Recommended glue for floor-heating system: SIKA T54, MAPEI P991. Other types of glue have to be agreed with particular supplier
    - Control of moisture content of wooden floor: 6 – 8%
    - Professional installers required

- Climate:
  - Recommended climated of the room:
    - Temperature: 20°C ± 2°C
    - Relative humidity: 50% ±5%
    - Max. temperature directly above the wooden floor: ≤ 27°C; kindly note that it means also areas which are covered by for instance carpets or which are directly penetrated by sun light

- Information regarding to extension of wooden floors:
  - Thermal resistance on 20 mm boards: 0,14 [m² x K/ W]
  - Floor heating systems provok an aggressive climate (n.b.: rather low humidity) directly above the floor. It means that gaps between single wooden elements will be bigger; eventually cracks on single boards might appear. Therefore it is essential to keep humidity of the room close to 50%.
  - Cooling of the floor on wider boards is not recommended.