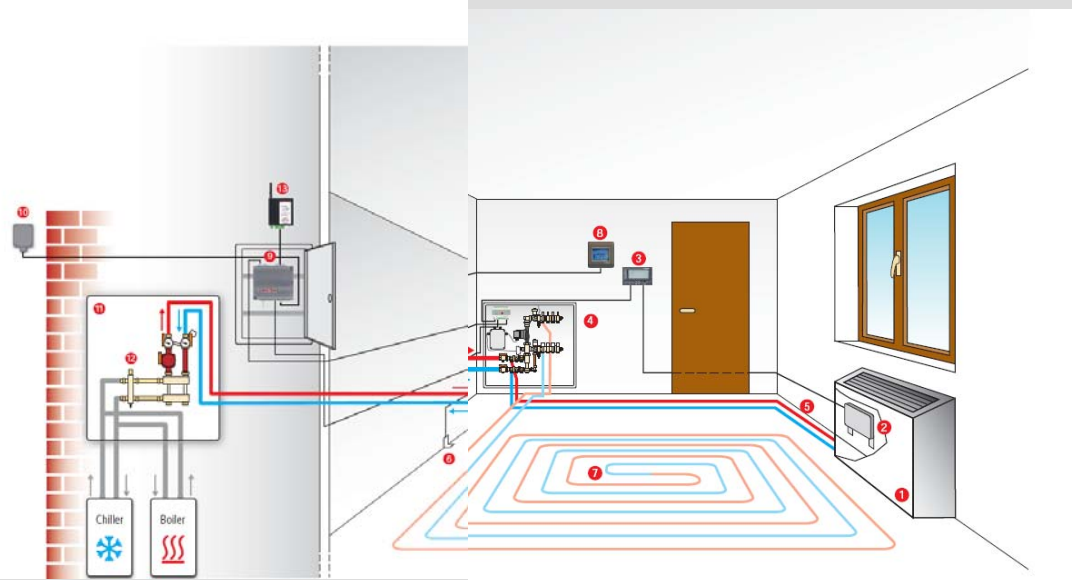




Example of application in residential building:  
giacoklima® heating/cooling control system associated  
with the heating and cooling underfloor system



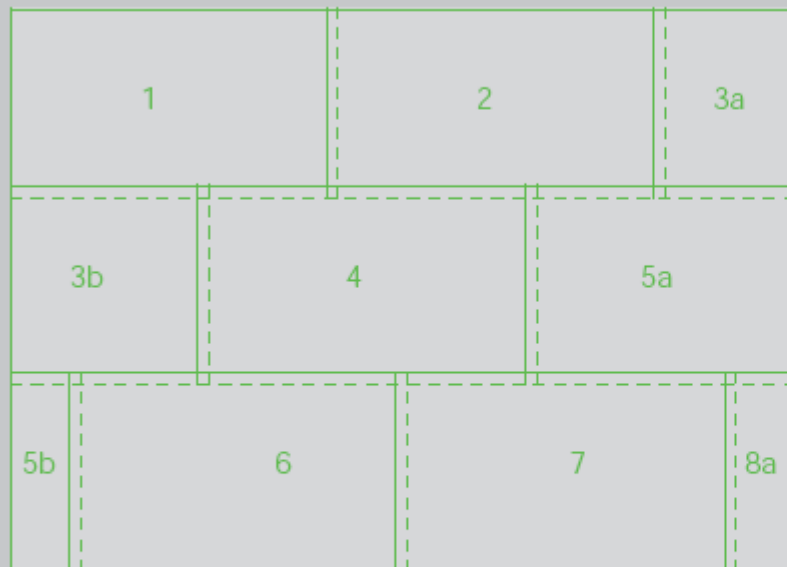
### LEGEND

- 1 Fan coil
- 2 KF200 module for Fan coil control
- 3 K483F built-in thermostat
- 4 R559 pre-assembled group
- 5 Fan coil supply circuits
- 6 K366A condensation prevention probe
- 7 Circuits of underfloor system
- 8 KD300 unit touch-screen
- 9 KM203 network controller
- 10 K365P external temperature probe
- 11 Power unit group
- 12 R146 hydraulic separator
- 13 KSMS remote control module

## Schematic for Under floor Radiant system



Installation plan

 TECH

1 ▶ R979: Detail of the panel

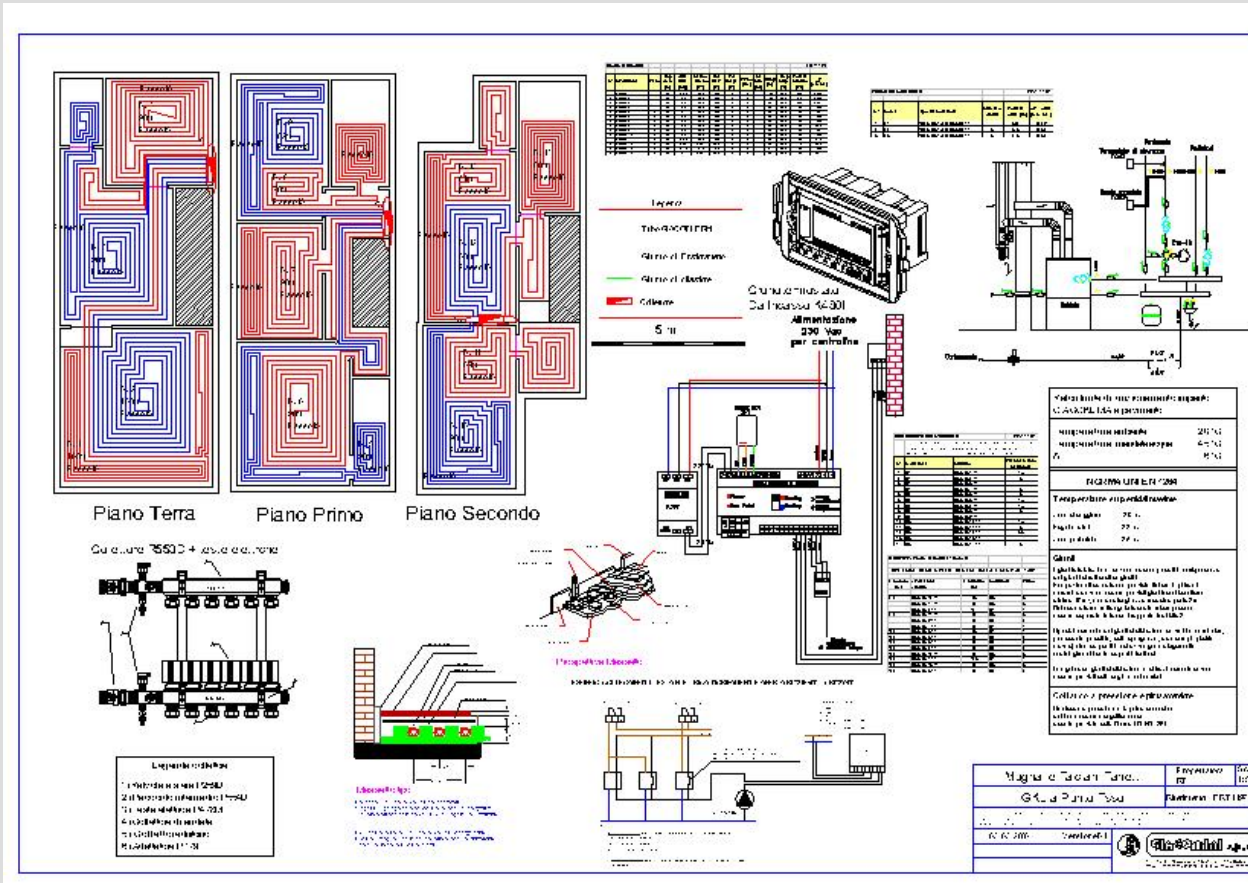
2 ▶ R979: Structure

3 ▶ R979: View from below

 INFO

INSTALLATION

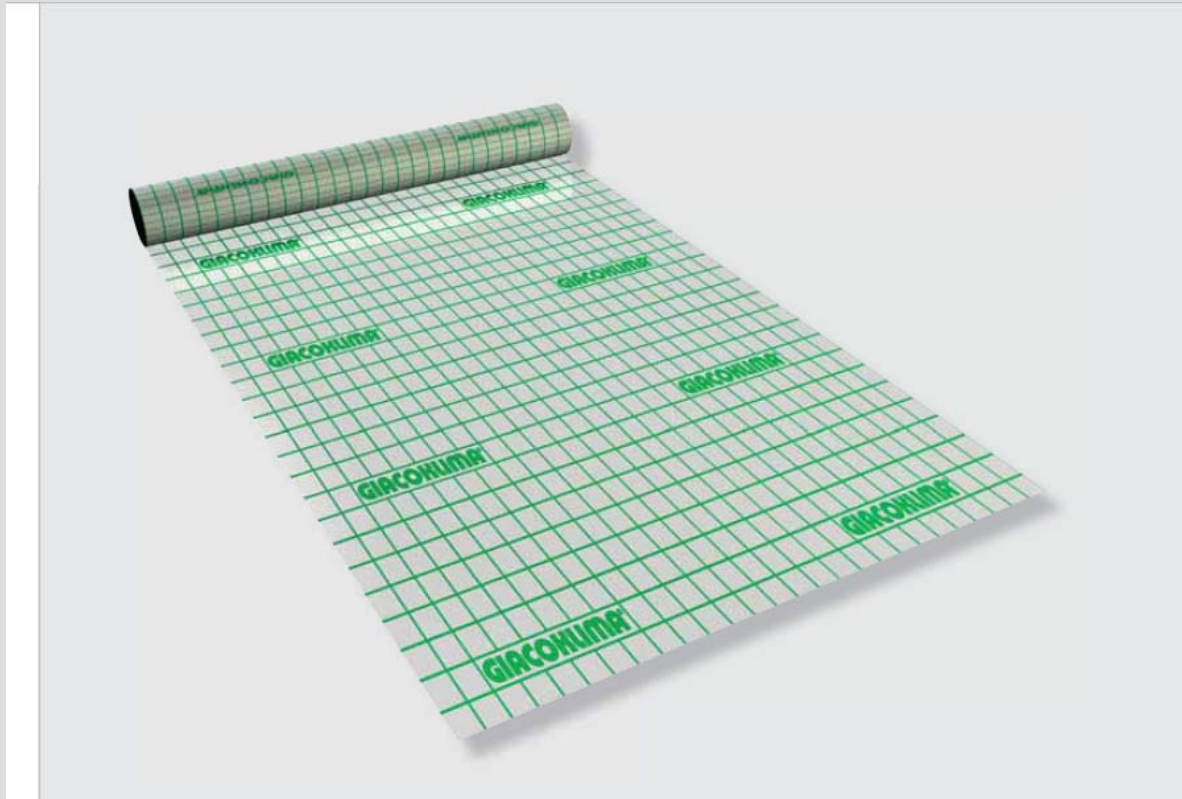
# System Installation : plan



# Design and calculations



Lay insulation



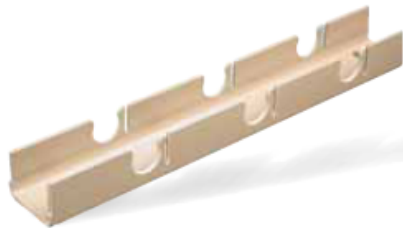
Cover with Layout guide



## INSTALLATION

Installation of the R981 panels is a quick and simple operation. Above these, an R984 sheet is subsequently rolled out. To install tubing, the K389 pipe-clamping track system and R983Y500 clips for smooth panel are used.

Pipe installation operations are facilitated by the fact that on the R984 covering sheet a 50 mm. pitch square grid is printed in green. In case of critical load situations (industrial floors, gyms, etc.) the dimensions of the stiffening net and the thickness of the screed must be evaluated appropriately.



# Accessories to lay the pipes

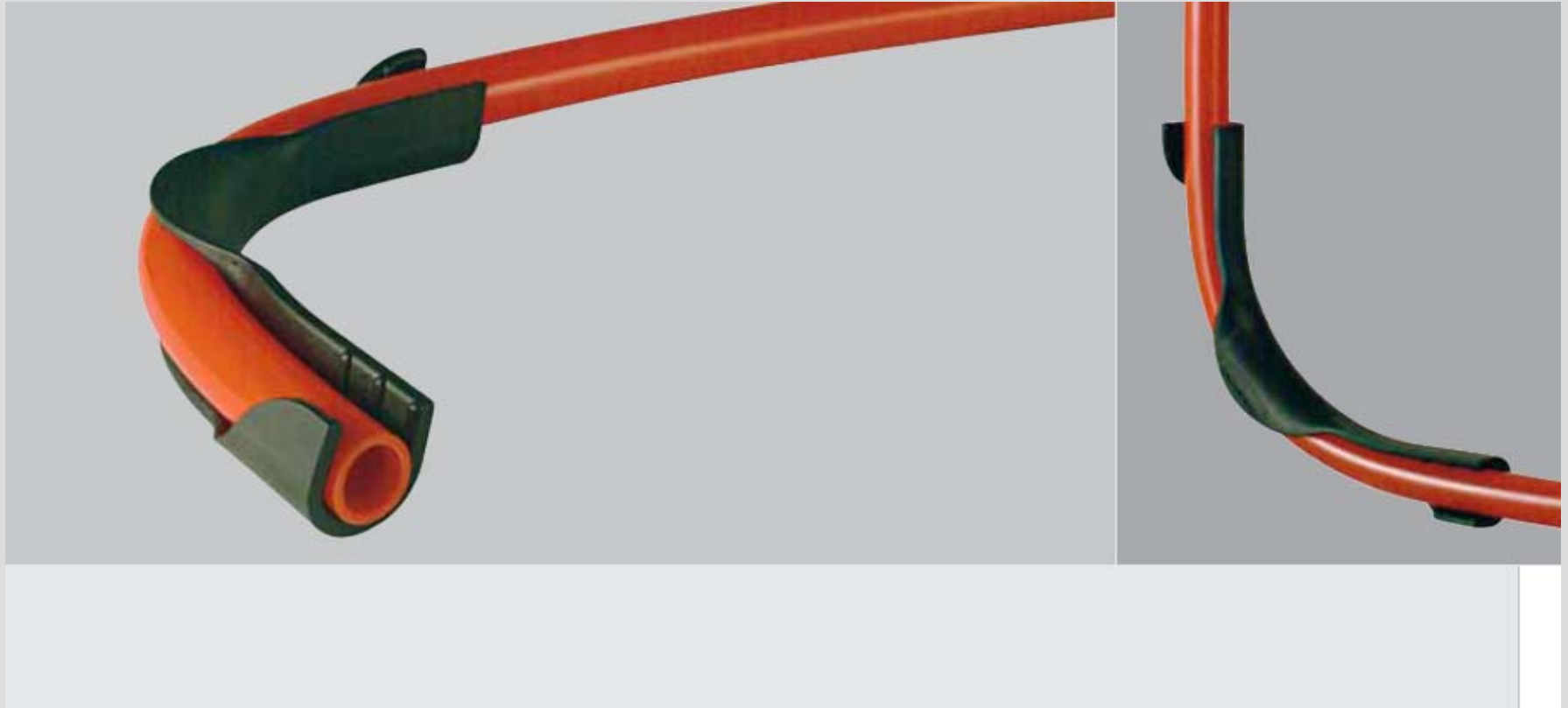


Lay the pipes on K 389

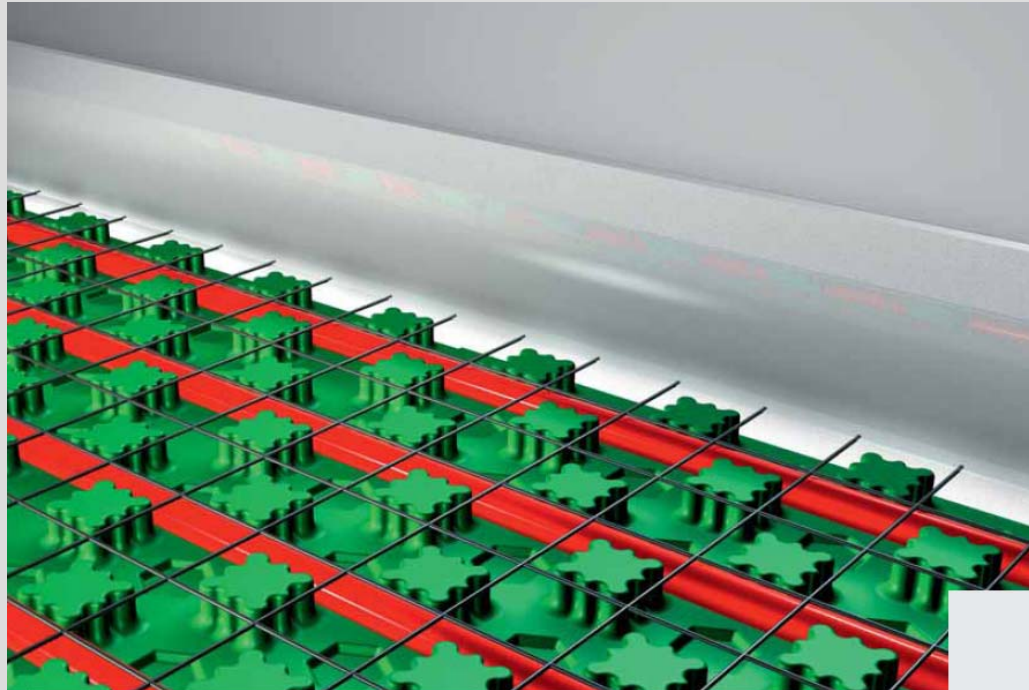


Lay the pipes on K 389





Use of R 549 to avoid sharp bend



ACCESSORIES

K393 electrowelded metallic net

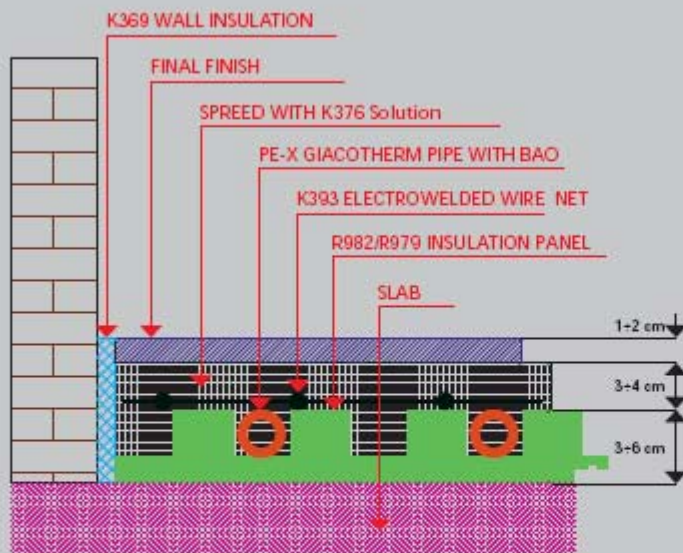
# Cover the pipes with K393



Screed over the Metal net



Lateral view  
of floor section

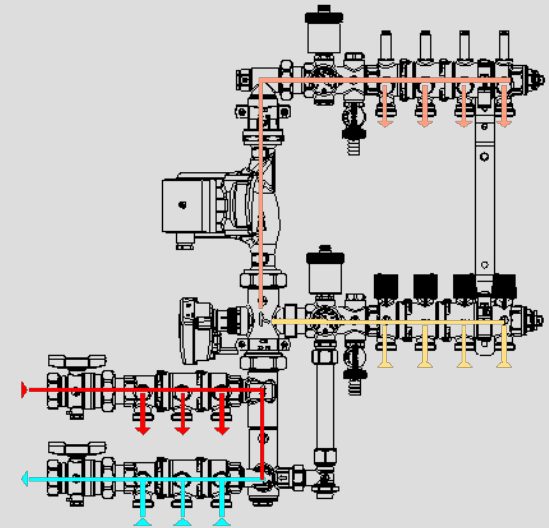


TECH

- 1 ► Zinc-plated electrowelded net
- 2 ► K369: wall insulation
- 3 ► K369D: Expansion joint insulation

INFO

# Lateral view of the floor section



# Manifolds for the system



### Thermoregulation with bus system

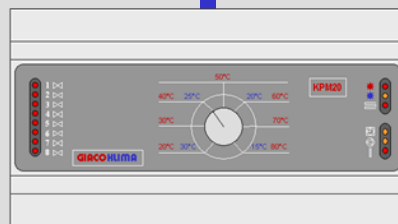
- The system collects the data (temperature and relative umidity)
- The delivery temperature is chosen according to the room conditions in order to grant the maximum power output avoiding condensation

Controller (master)



Primary bus

Secondary bus



I/O Unit (slave)



K481 #1

K481 #2

K481 #3

K481 #8