

Tencent Beijing Headquarters Building



uponor

A High-profile Building

Tencent Beijing Headquarters Building is located in Zhongguancun Software Park, Haidian District, Beijing. The construction was started on October 13, 2014 with the design provided by Beijing Institute of Architectural Design (Group) Co., Ltd.

The gross area is about 308,640 square meters. 158,640 square meters are above grade, and 150,000 square meters are below grade.

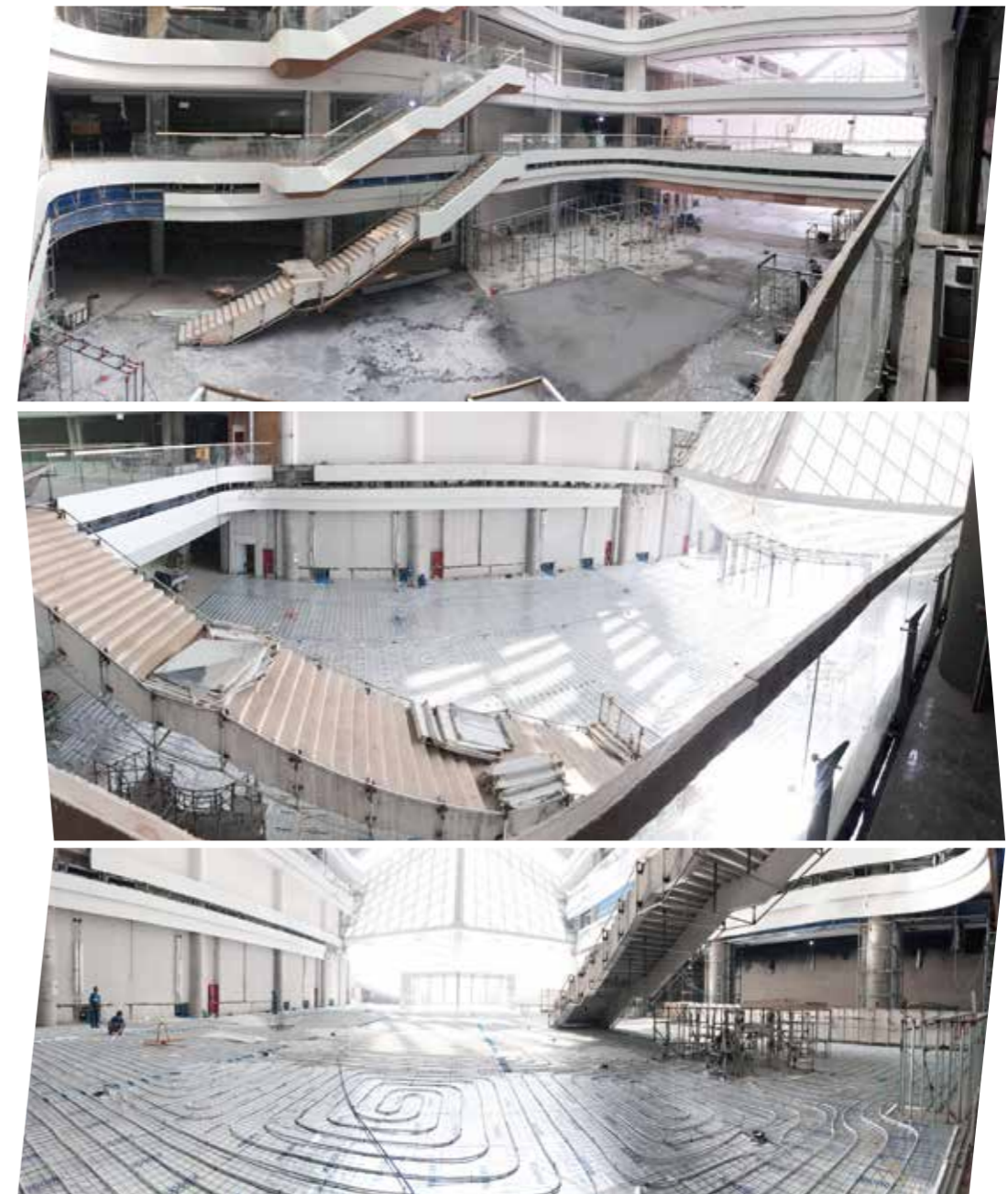




Tencent Beijing Headquarters Building will be of great significance to Tencent after its completion, as it represents Tencent's international image and will be used for online media reception in Beijing.

Taking into account the building's unique structure, large area and tight construction schedule as well as its mission to complement an international brand, the client had strict requirements for every product required for the project.

Trusted by the investor, Uponor became the supplier of the radiant floor heating/cooling solutions.





Radiant floor heating/cooling is installed in the exhibition hall, the Avenue of Stars and the bank on B1; the staff lobby, the swimming pool, the public lobby and the VIP lobby on L1; and the sky lobby.

The underfloor pipes used are Uponor 20*2.25 MLCP, which are made in Germany.

The product combines the benefits of both metal and plastic pipes of keeping a stable shape when bending the pipes and providing a smooth inner surface that prevents scaling or mineral build-up. The inner aluminium layer provides a 100 % oxygen proof barrier, which protects the moving parts such as actuator valves in the system ensuring a long service life and close to no maintenance requirements.

Features

- Absolutely oxygen diffusion tight multi-layer composite pipe
- High inherent stability and bend flexibility
- Low linear expansion
- Excellent hydrostatic stress performance
- Corrosion resistance





The manifolds are Uponor UBC brass manifolds.

Uponor UBC1" manifold is modular in design and provides 2-8 loops. These manifolds can be combined at will to provide the desired number of loops.



In order to create a more comfortable office environment, Uponor Smartix Base control system is used for this project. The system is ideal for radiant floor heating and cooling systems. As a modular system, the components can be selected to match the requirements of each heating / cooling zone controlling the temperatures to maximum comfort levels.

Uponor Smartix Base consists of a control box, thermostats, electrothermal actuators and an optional timer. The room thermostat measures the thermal condition in each room and sends the information to the controller. Different types of thermostats can be used in the Uponor Smartix Base system.

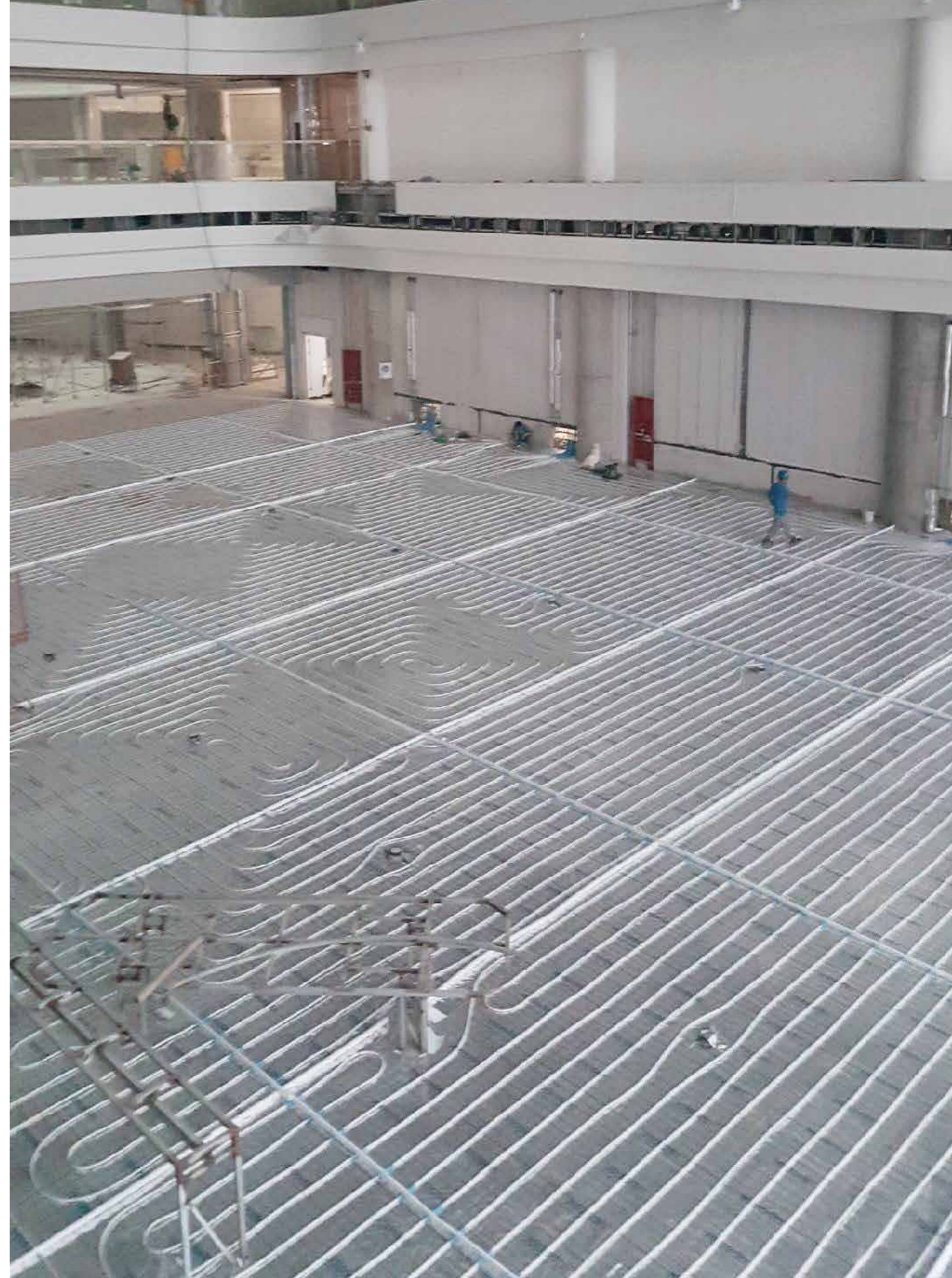
The controller manages the opening and closing time of the electrothermal actuators, which adjust the water flow rate in each pipes loop to match thermal comfort requirements.

This constant comparison of room temperature requirements and necessary water temperatures is known as the Uponor autobalancing function. It is important because it optimizes the water flow in the pipe system and by doing so can save up to 20% of energy.



Characterized by excellent quality and easy installation, Uponor's solutions also ensure long service life, low maintenance costs, precise temperature control and remarkable comfort, thereby adding value to all buildings.

Tencent is a leading provider of integrated internet services and an outstanding representative of Chinese companies. Uponor is proud to have been selected to provide thermal comfort to this project.





Uponor Radiant Cooling / Heating Solutions

Comfort – Enjoy a better indoor environment

Uponor radiant cooling / heating systems are silent and create optimal thermal environment

Reliability – Trust a proven system

More than 4 billion meters of piping in Uponor plumbing, cooling / heating systems have been installed over 35 years in different climatic regions

Low energy – Save energy and money during operation

Uponor radiant cooling / heating systems optimize energy efficiency and are ideal for the use of renewable energy sources

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