

Concrete core activation České Budějovice Research Library



Uponor involvement

- ✓ Contec ON system 700 m2 incl. underlay for concrete finish, 14x2.0 mm piping and Contec ON module. Main distribution pipelines PE-Xa 40 mm.

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Heating and cooling using the Contec ON in The Research Library.

Heating and cooling of the new research library with the Contec ON concrete core activation system

Project Facts:

Location

České Budějovice, Czech Republic

Completion

2020

Building Type

Office building

Product systems

Radiant Heating & Cooling

Project Type

New building

Partners

- ČIS ČB

Books require year-round indoor temperature

This building with a total ground area of 1,000 m² is equipped with the Contec ON concrete core activation system for year round temperature control of the interior climate within the required limits (between 20 and 26 °C summer/winter). Due to the options on offer, the entire system is fed from one place through ten outlets using PE-Xa 40 mm piping, to which separate modules for activation of the Contec ON system are connected by Tichelmann distributor. It is a one-storey building with a completely glazed façade without any shade whatsoever. With regard to these circumstances, a study was conducted using a 3D model with dynamic simulation of changing temperatures and burdens. The Contec ON system is capable of covering all temperature requirements all year round.

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