

Referenser

Ericusspitze Spiegelhaus



Uponors roll



50000

Ericusspitze Spiegelhaus

Företaget HQ som ingår i Spiegelgruppen ligger i Ericusspitze, Tyskland. Det termiskt aktiva betongbjälklaget från Uponor garanterar en behaglig temperatur i byggnaden.

Projektfakta

Location
Hamburg,
Germany

Färdigställt
2011

Byggnadstyp
Kontor

Product systems
Värme och kyla

Adress
Alsterufer 26

Hemsida
<http://www.robertvogel.de/opencms/opencms/ericusspitze/Vorhaben/index.html>

Projekttyp
Nybyggnation

Partners

Byggherre

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Germany

Konsult

[DS-Plan](#)

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Germany

Arkitekt

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Denmark

Installatör

Ullrich Gersch

Küstriner Vorland

Deutschland

Det nya huvudkontoret för Spiegel Group ligger i Ericusspitze i Hamburg, Tyskland. Det termiskt aktiva betongbjälklaget från Uponor garanterar en behaglig temperatur i byggnaden alla tider på dygnet.

Grunduppvärmning och kylning av den nya byggnaden sker med Uponor Contec bjälklag. Cirka 8150 kvadratmeter takyta förseddes med prefabricerade Uponor Contec bjälklagsmoduler. Modulerna har integrerade PEX-rör (PE-Xa, tvärbunden polyeten) med dimensionen 20 x 2,3 mm.

Vid intresse av Uponor Contec kontaktar du oss på Uponor VVS så vidareförmedlar vi dina kontaktuppgifter inom Uponor projektförsäljning i Europa.

Referensartikeln fortsätter nu på engelska.

In so doing, the thermal ceiling activation achieves coverage of up to 30% of the base loads. The remaining heating and cooling loads are covered using suspended ceiling panels that are also thermally active. The loads still remaining for climate control are covered using a heating-cooling panel, and in areas with increased cooling requirement, using a conventional air conditioning system. For heating, the energy retrieved from the geothermal system is sufficient to cover the base loads using the concrete core activation as well as the ceiling panels with an intake temperature of 35°C and a return temperature of 30°C. To address demand peaks in secondary areas of the building and for additional heating, district heating is used according to the prevailing demand.

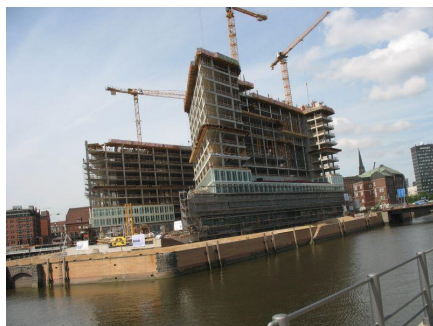
"In addition to a geothermal system, when planning the surface temperature control in the floor and ceiling, the use of district heating was also taken into account in the energy concept", explained Ralph Valtinke, specialist planner at DS-Plan Ingenieurgesellschaft für ganzheitliche Bauberatung und Generalfachplanung mbH.

When it comes to cooling, higher thermal power is required to supply the cooling panels. To achieve this, the cooling circuits of the concrete core activation used here are set up as separate cooling circuits. External protection against the sun as well as back cooling of the double facade are employed so that the new Spiegel building is protected against excessive temperature rises.

A bivalent surface temperature control in the ground floor is integrated in the energy concept. The well-proven Uponor Classic support element system ensures uniform heating and cooling. When heating, an intake temperature of 40°C with a return of 30°C is planned and for cooling an intake temperature of 18°C with a return of 21°C. With this overall energy concept the basis has been created to be awarded the "Gold"-Status for the new Spiegel building at the Ericusspitze. With the overall concept, the annual primary energy demand of the building is below 100 Kilowatt hours per m².

The Uponor Quick & Easy system components were used for the 3,000 metres of connecting pipes. This type of installation decreases time-consuming pressing, welding or soldering. After a locking ring has been placed over the pipe, the PE-Xa pipe is expanded using an expansion tool and then inserted in the fitting. As a result of the memory effect of the material, when the pipe shrinks, the it is firmly connected to the fitting.

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Uponor

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