Referenser

Cissi Klein high school Trondheim



Uponors roll

Blue Pipe Pex

First in the world with pipes in bioplastic

They are constructing the world's first building using bio-based PEX pipes. The bioplastic reduces CO₂ emissions by ten tons at Cissi Klein High School.
47,000 meters of pipe. That's a lot of plastic, but the high school in Trondheim is the first construction project in the world to use the new Blue Pex pipes from Uponor.
Cissi Klein is set to become a zero-emission building. K. Lund is working with Veidekke on a school covering 20,000 square meters, designed with the intention of expanding to accommodate 900 students. It features a large sports hall with zoned underfloor heating in the showers, locker rooms, and halls. Internal walkways feature water-based heating. Additionally, there is a form of thermal insulation on virtually every floor except the basement.
In total, 40,000 meters of underfloor heating pipes are being used.
In addition, Blue Pex was supplied for the potable water system. This amounts to approximately 7,000 meters.

CO₂ emissions from the building are to be reduced to less than 45 percent of a reference building. The bioplastic pipes contribute significantly to this. According to the EPD documentation for the pipes, the savings amount to over ten tons of CO₂. This means that three-quarters of greenhouse gas emissions are eliminated. The calculation takes into account everything from the raw materials to the pipes being on-site at the construction site.

Projektfakta

Location	Färdigställt
Trondheim, Norway	2025
Byggnadstyp	Product systems
Skolor/universitet	Rörsystem PEX

Partners

K. Lund og Veidekke

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