New construction of a daycare center with cafeteria, Würzburg

Subfloor construction and surface heating

Würzburg, Germany


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Project Description

With the construction of the new Evangelical Nursery Sternwarte in Würzburg, a modern childcare centre has been created, offering space for 24 crèche and 50 kindergarten children. As the first municipal building constructed to the “Würzburg Energy Standard”, the project sets a benchmark for forward-looking construction – energy-efficient, ecologically considered and architecturally harmonised with its surroundings. Special attention was given to preserving the existing trees on the site, which were carefully integrated into the design.

Lindner GFT made a key contribution to meeting the building’s energy and functional requirements through its work on the floor structure and surface heating systems. As part of the interior fit-out, a bound fill was first installed to create a level, thermally insulating surface characterised by high compressive strength, non-combustibility and excellent pumpability. This solution enables precise height compensation and provides the ideal base for subsequent installations.

Building upon this foundation, the NORIT-TE 30 Therm GF underfloor heating system was laid – a system with a low build-up height and excellent acoustic insulation properties. Thanks to its low flow temperatures, it supports the building’s sustainable low-tech approach while ensuring pleasant, evenly distributed warmth – an essential factor for the daily comfort of children and staff alike.

General

Concept	Subfloor construction and surface heating
Building Type	Day Care Centres and Kindergartens, Public and institutional buildings
Company Division	Lindner Gipsfaser- und Trockenbau
Completition	2025

Completed Works

- **NORIT Underfloor Heatings**

  NORIT-TE 30 Therm GF
  NORIT-Bound Levelling Compound
  NORIT-TE 25


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