

School Building in Meinersen Learning in Sustainable Timber Construction

Meinersen, Germany





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Project Description

Between 2022 and 2025, the new build of the Meinersen special needs school was realised as a single-storey educational facility that consistently combines demanding pedagogical requirements with low-emission construction and functional spatial concepts. Designed as a low-energy building, the timber-frame structure provides a net floor area of 7,595 m². The school is planned for 24 classes with only seven pupils each, tailored to children with increased support needs, and offers space for a total of 168 pupils.

The architecture is organised into 13 interconnected and colour-differentiated cluster buildings, including a sports hall, all accessed via a central school corridor. This layout supports short distances, clear orientation and a calm learning environment. At the entrance, the building opens into an assembly hall with stage facilities, complemented by a dining area and kitchen. In addition to the classrooms with adjoining differentiation rooms, the spatial programme includes therapy areas, specialist teaching rooms, a canteen and a sports hall.

Interior Fit-Out with a Focus on Functionality and Sustainability

The requirements for the interior fit-out were derived directly from the building's use as a special needs school: robust materials, high functionality and a pleasant indoor climate formed the basis of the planning decisions. At the same time, technical systems were designed to allow flexible adaptation to future changes in school operations while supporting the building's overall sustainable strategy.

The new Meinersen special needs school stands as a representative example of sustainable construction in the education sector. As a low-energy building, it reduces energy consumption through lower heat input temperatures of 35°C to 40°C instead of the conventional 50°C to 60°C. The timber-frame building is heated entirely by geothermal energy; the required probes are located beneath the parking areas and form an integral part of the energy concept.

Roof-mounted solar collectors supplement the heat supply and contribute to the regeneration of the ground-coupled systems. The interior fit-out consistently continues this approach, complementing the architectural structure with durable, low-maintenance and practical solutions that ensure reliable long-term operation.

Against this backdrop, the Lindner Group was responsible for the installation of floor systems in the corridor areas and classrooms, integrating its services seamlessly into the overall construction process. The implemented flooring systems combine building services, interior fit-out and user comfort into a holistic solution.

Floor Systems as an Integral Part of the Spatial Concept

For this purpose, systems from the **FLOOR and more®** product line were used, each tailored to the specific requirements of the respective areas.

In the classrooms and corridors, the **FLOOR and more® comfort** hollow floor with integrated underfloor heating was installed. This heating system ensures a consistently pleasant indoor climate with low flow temperatures and fast response times. The combination of hollow floor and heating technology supports both user comfort and the concealed routing of technical installations.

In areas subject to heavy use, FLOOR and more® hollow floor systems with resilient floor coverings were applied, combining slip resistance, ease of maintenance and acoustic performance. For zones with increased load requirements, the Lindner Group integrated FLOOR and more® power, which offers very high load-bearing capacity and reliably accommodates heavy-duty areas.

General

Concept	Learning in Sustainable Timber Construction
Building Type	Teaching, Class and Educational Rooms, Schools, Public and institutional buildings
Company Division	Lindner SE Floors
Completion	2022 - 2025

Completed Works

- **Floors**

- Calcium Sulphate Panels
 - FLOOR and more®
 - FLOOR and more® comfort
 - FLOOR and more® power
- Floor Coverings





