

Construction work on new school campus in Heilbronn in full swing

Facts & Figures

ZÜBLIN ENTITIES:
ZÜBLIN Timber,
ZÜBLIN Steel Construction

PROJECT SCHEDULE
ZÜBLIN Timber:
9/2022 – 5/2023

FLOORS:
6

GROSS FLOOR AREA:
48,000 m²

CLIENT:
Schwarz Immobilienmanagement
GmbH & Co. KG, represented by
Schwarz Campus Service GmbH &
Co. KG

ARCHITECTS:
Behnisch Architekten, Stuttgart

STRUCTURAL DESIGN:
sbp schlaich bergemann partner,
Stuttgart

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- **ZÜBLIN Timber in charge of timber and steel construction work**
- **Josef Schwarz School in Heilbronn one of the largest new school construction projects in Germany**
- **Wood hybrid construction protects the climate**

Stuttgart, 20 December 2022 One of Germany's largest and most modern school campuses is currently being built in Heilbronn: the internationally minded, bilingual Josef Schwarz School. The new building on the former site of the German Federal Garden Show combines three separate schools on a gross floor area (including parking garage) of around 48,000 m²: one private primary school as well as two private secondary schools (level I and II). The design for the attractive and welcoming school campus is by [Behnisch Architekten](#) of Stuttgart.

The new Josef Schwarz School consists of three pavilion-like structures with up to six floors. The ground floor, which connects the three buildings with each other, will accommodate communal areas such as a cafeteria, an auditorium and a gymnasium as well as the main foyer. Above the ground floor, the school will be built as a steel-wood hybrid structure. In addition to the three types of school, the campus will also house a boarding school for upper-level students, two large sports halls, school gardens, terraces and landscaped open spaces.

Steel construction and carpentry work go hand in hand

The design principles are repeated in each component/structure and on each floor, with cross-laminated timber elements arranged between steel beams supported on steel and timber columns.

"We are right on schedule – despite the fact that we have to install an unusually large amount of material in a very demanding schedule. The key is to precisely coordinate the delivery and assembly of the timber and steel elements. Our ZÜBLIN Timber team is working hand in hand with the team from ZÜBLIN Steel Construction to achieve this goal," says Jan-Ole Bergmann, project manager at ZÜBLIN Timber.

ZÜBLIN's scope of services includes, among other things, the production and assembly of the ceilings and roof structures made of LENO® cross-laminated timber as well as the extensive steel structure. The steel and timber construction work, combined with the bracing concrete cores, forms the load-bearing structure of the upper floors. In total, around 6,700 m³ of cross-laminated timber, 160 m³ of larch glulam columns and around 1,500 t of steel will be used for the wood-steel hybrid building in Heilbronn.

Focus on sustainability

The hybrid design makes an important contribution to the climate-friendly construction of the building. Wood is a renewable raw material that binds CO₂. For the Josef Schwarz School, ZÜBLIN Timber only uses wood, wood products and wood materials that are FSC- or PEFC-certified and come with CoC (Chain of Custody) certification. DGNB platinum certification is being sought for the Josef Schwarz School, which places high demands on the materials used.

When the building is completed, a geothermal system for heating and cooling as well as a photovoltaic system will ensure a sustainable energy supply during operation. The conscious decision was made not to use a conventional air conditioning system. Thermal comfort is provided by a large-surface heating and cooling ceiling system consisting of clay panels and through the use of wood.

After completion of the school campus in September 2024, the new building of the Josef Schwarz School will provide space for 1,000 students.

***ZÜBLIN Timber** stands for ambitious and pioneered solutions in the field of timber construction. We are a single-source provider for the development, production, delivery, and execution of high-quality timber construction systems – from simple structural frames to complex timber engineering and façade construction to turnkey project execution. We work hand in hand with our clients to develop efficient solutions and a sustainable quality of life: www.zueblin-timber.com.*

***Züblin Stahlbau GmbH** is a construction service provider for challenging projects involving steel buildings, steel bridges and façades. With around 350 employees, the company is one of the leading German structural steelwork enterprises with Europe-wide project experience. With two modern state-of-the-art production facilities, specialised know-how and strong partnerships in all areas, ZÜBLIN Stahlbau is your partner for the technically and economically best solution - whatever the challenge.*

*Stuttgart-based **Ed. Züblin AG**, with approximately 14,000 employees and an annual output of around € 4 billion, is one of Germany's largest construction companies. ZÜBLIN, which has been successfully realising challenging construction projects in Germany and abroad since 1898, is the STRABAG Group's leading brand for building construction and civil engineering. The range of services covers all construction-related tasks – from complex turnkey construction, civil engineering and tunnelling to construction logistics, structural maintenance, ground engineering and timber and steel construction. Supported by the expertise of its Zentrale Technik competence centre, ZÜBLIN also offers integrated design-and-build services from a*

single source. We take an end-to-end view of buildings over their entire life cycle, with a focus on collaborative construction using our TEAMCONCEPT® partnering model while constantly promoting and advancing the topics of digitalisation, sustainability and innovation. Together within the STRABAG Group and with our external partners, we are working systematically to make the design-and-build processes resource-friendly and climate-neutral. Current ZÜBLIN construction projects include the EDGE East Side Berlin high-rise project, the Rinsdorf and Rälsbach viaducts on the A45 motorway and the approximately 2 km long airport tunnel in Stuttgart. More information is available at www.zueblin.de.

Abbildung:



The new Josef Schwarz School is being built using a climate-friendly steel-wood hybrid design.

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