PROJECT

MONTESSORI SCHOOL

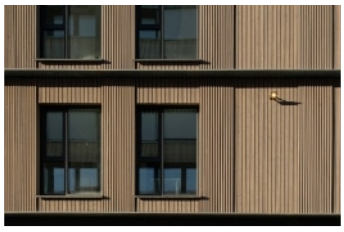
LOCATION
Munich, Germany

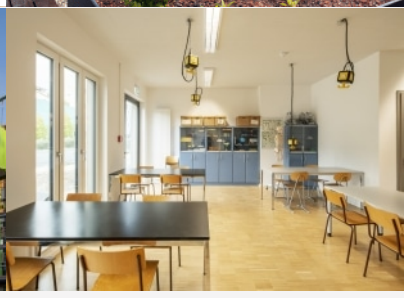
MODULAR CONSTRUCTION

SUSTAINABLE BUILDING
SHAPES THE FUTURE

The building was realised using a modular timber construction. The use of larch wood formwork for the façade, which has different depths, subtly implied the modular system of KLH® – CLT and at the same time hints at the wooden core of the building. The three-dimensional façade creates a lively look with fascinating plays of light and shadow. Thanks to the combination of air-to-water heat pumps and photovoltaic systems, the building is powered by 100% renewable energy. The interplay of different modules creates auditoriums, canteen kitchens and sports halls without the use of beams. A concrete table was built over an existing underground car park, and this supports the classrooms over two stories. This extension is only possible thanks to the low weight of KLH® – CLT and its structural properties. The 140 modules were with a prefabrication rate of 80% in 8 weeks onsite assembled, regardless of the weather. This project is a pioneering example of sustainable construction.

PROJECT INFO
Volume of KLH® – CLT: 12.014m² / 1.740m³
Stored carbon: 1.326 tonnes
Regrowth time in Austria: 29 minutes





ARCHITECTURE
Hain-Fischer & Houzer Architekten

CLIENT
CORESTATE Capital Investors GmbH

GENERAL CONTRACTOR
LiWooD Management AG

ELEMENT PLANNING
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