

# MONTESSORI SCHOOL

LOCATION  
Munich,  
Germany

## 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: 12.014m<sup>2</sup> / 1.740m<sup>3</sup>  
 Stored carbon: 1.326 tonnes  
 Regrowth time in Austria: 29 minutes

MODULAR CONSTRUCTION



**ARCHITECTURE**

Hain-Fischer & Houzer Architekten

**CLIENT**

CORESTATE Capital Investors GmbH

**GENERAL CONTRACTOR**

LiWood Management AG

**ELEMENT PLANNING**

ABA HOLZ van Kempen GmbH

**PHOTOGRAPHY CREDITS**

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