binderholz

tiptop timber

Living in the Park, Mondsee | Austria

Project Solid timber construction apartment block
Place Mondsee, Austria
Year of construction 2016
Client Wohnzone GmbH
Architecture Bauzone GmbH - Baumhaus
Execution of timber construction Holzbau Appesbacher GmbH
Statics Dipl. Ing. Peter Winter
Use of BBS 430 m³ of BBS 125 and BBS XL elements, the majority of which supplied as visible quality AB

This three-storey apartment block was built as an ecological solid timber construction building on the green Freinberggründe right in the heart of Mondsee. This concept uniquely succeeds in fusing together traditional timber construction engineering, modern architecture, energy-efficient building design and health living comfort by combining timber and clay. When coupled with the outstanding properties of timber as a store of heat and humidity, the warm timber surfaces guarantee a balanced living environment and a high level of comfort.

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The walls and ceilings of this property were constructed using binderholz CLT BBS. The walls use BBS XXL and the ceilings BBS 125 elements, both visible quality with a planed surface. The special production of the BBS XXL panels, measuring up to 3.5 m x 22.0 m, means that they can be produced without finger-jointing in the top layer. The surface was planed and white glazed in line with the client's wishes. Other surface finishes, such as stone pine, white fir or BBS Antique, would also have been possible.

The visible wooden surfaces of the BBS elements create outstanding living comfort at the same time as improving the interior climate. The solid wood ceilings also comply with the most exacting fire protection requirements, providing a fire resistance rating of 90 minutes. Visible wood is the theme running through the building's entire architecture, also characterising the façade design as well as the execution of the balconies. Thanks to the excellent thermal insulation of solid wood, the compact building structure and a comfort ventilation system with heat recovery, the annual heating requirement of the new building is only 23 kWh/m², thereby corresponding to the requirement of low-energy houses. To ensure quick and seamless approval of the building project by the responsible authorities, the architects planned solely to source the wall, ceiling and roof structures from the binderholz Solid Timber Construction Manual, which can be found at www.massivholzhandbuch.com. All the elements described in detail here have been tested with regard to fire resistance, thermal and sound insulation, which significantly simplifies and speeds up the planning process.

A pre-greying coating was applied to rough-sawn white fir to create the very attractive façade design and covered by different widths of panel.