

Cross-laminated solid timber





Wood, the only renewable raw material and a gift of nature, has been appreciated as a construction and building material for centuries. One of the common building materials alongside natural stone until the beginning of the 19th century, it is today experiencing an immense renaissance. On the one hand, this is due to the increasing health consciousness and environmental awareness of mankind and on the other hand to the contribution of modern solid timber construction to a healthy indoor environment.

Austria is a country with one of the largest amounts of forests and unspoiled nature in Europe. Every day, more trees grow than are taken out of the forests. KLH solid timber panels are produced entirely from Austrian coniferous wood under strict environmental conditions. The PEFC certificate confirms that the timber used originates from sustainable forestry.

Gluing is carried out with PUR adhesive tested in accordance with DIN 68141 and other strict criteria by MPA Stuttgart and approved for the production of load-bearing timber construction elements and special construction methods in accordance with DIN 1052 and EN 301. Crosswise gluing at high pressure reduces the wood's expansion and shrinkage to an insignificant level.

KLH solid timber panels are used as large wall, floor and roof elements.

The panels are cut and processed in the KLH Massivholz GmbH factory using state-of-the-art CNC technologies based on accurate cutting plans submitted by the construction companies. If the timber construction firm is adequately equipped, cutting can also take place at the company's own factory itself.

The KLH solid timber panels are delivered by lorry directly to the building site and are positioned using a construction crane.



They are produced in a maximum length of 16.50 m, a maximum width of 2.95 m and a maximum panel thickness of 0.50 m subject to constant internal and external supervision.

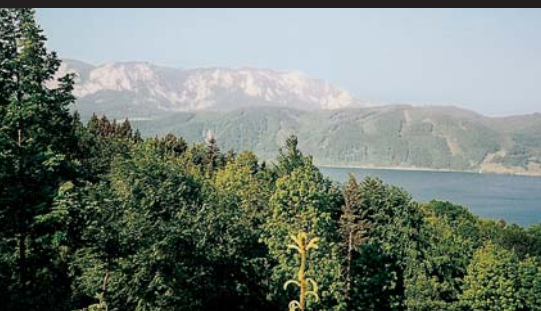
To minimise offcuts, we recommend that you take the calculation widths of 2.40 / 2.50 / 2.72 and 2.95 m into account as early as possible in the planning phase.



Exactly fitting elements and the skills of a qualified carpentry and wood construction company guarantee extremely short construction periods, high quality, quick readiness for occupancy and construction of lasting value with high individuality.

Cross-laminated timber (German abbr. KLH) is produced from industrially dried spruce boards which are stacked at right angles and glued together over their entire surface. Depending on the purpose and static requirement, the plates are available in 3, 5, 7 or more board layers.

KLH solid timber panels are industrially manufactured structural building elements. They are available as standard in non visual quality, industrial visual quality and domestic quality for living spaces.





The large formats of the KLH solid timber panels, the cross lamination, the structural capacity and the possibility of combining it with steel, glass etc offers ultimate design freedom - from detached houses, multi-storey residential blocks and public and commercial buildings to arched roofs and bridge constructions.

Continuous research and development, monitored production processes and technical approvals are all part of our work. The essential part, however, is to be a valuable partner for our customers, sales partners and staff members.

European
technical
approval

ETA-06/0138



General building
approval
for Germany

Z-9.1-482



French
technical
approval

AT - 3/06-477



PCC AT.СЛ42.H00041



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Single-storey and multi-storey residential buildings • Public buildings • Industrial and commercial buildings • Bridges ...

