PROJECT

BOULDER BRIDGE HOUSE

LOCATION
Oregon, USA

EARTHQUAKE-PROOF
AND HARMONIOUSLY EMBEDDED IN NATURE

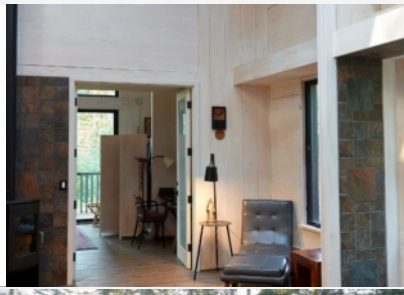
The construction project in Oregon utilises cross laminated timber as the central building material for a seismically resistant and sustainable structure. KLH® – CLT allows for large, open spaces and fast construction, which meant that assembly was completed within a few days. Due to its thermal mass, the material ensures high energy efficiency.

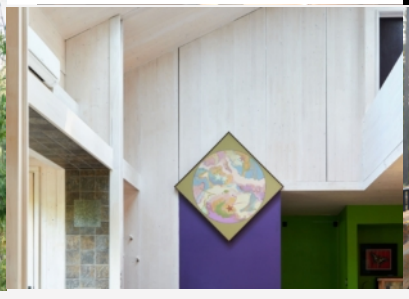
The construction was realised with precise engineering to ensure stability without load-bearing internal walls. Particular attention was paid to earthquake resistance, with the structure being considered more robust than many conventional buildings. The design integrates harmoniously into the wooded surroundings and utilises a cantilevered upper floor for a floating aesthetic. The house is accessed via a bridge, which is not only functional but also contributes to the unique design of the structure. The use of KLH® elements demonstrates the potential of solid wood in modern residential construction and emphasises its ecological and structural superiority.

PROJECT INFO

Volume of KLH® – CLT: 815 m² / 86 m³
Stored carbon: 65 tonnes
Regrowth time in Austria: 1 minute

SINGLE FAMILY HOUSES





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STRUCTURAL ENGINEERING

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PHOTOGRAPHY CREDITS

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