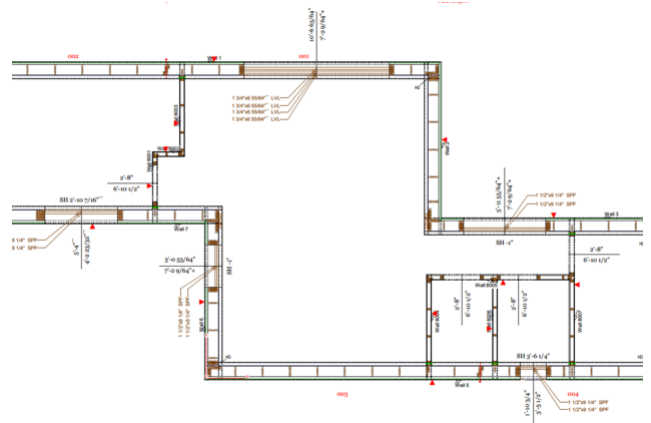


Residential building Kluskus 1, Canada

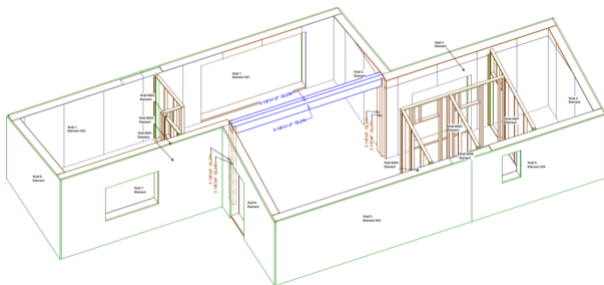


In British Columbia in western Canada, the first innovative residential building with a wooden floor slab has been built. The house impresses with its sustainable construction method, which starts with a wooden floor slab right from the foundation, and is a convincing passive house standard in use.

In British Columbia in western Canada, a residential building with a flat wooden floor slab was built. The project aims to create affordable and ecological living space in the Canadian reserves of the First Nation. The use of wood as the main material throughout the structure not only supports the sustainable use of natural resources, but also reflects the First Nation's traditional building methods and respect for nature. The home is not only cost-efficient and environmentally friendly, but also offers a sustainable way of life.

The project comprises a 1-bedroom apartment with a passive house standard (1-DEN) on an area of approx. 74 m². The building was divided into two prefabricated modular units and installed on site in just one week. Thanks to the precise prefabrication, it was possible to combine a fast construction time with the highest quality of workmanship.

The remote location of the site, three hours from the nearest town, was a challenge in the project. This required precise logistics and planning. During execution, the exact positioning of the modules was paramount. They were placed on the wooden base plate with millimetre precision, which ensured that they were installed with ease. Topographically, the adjacent lakeshore is at least 15 feet lower than the construction site. As a result, the wooden base plate is not affected, ensuring long-term stability.



Construction data

Client

Kluskus Indian Band

Timber construction

Paradigm Building Solutions Ltd, V0E 2S0 Revelstoke

Civil engineer

Timberengineering.ca, V5T 1G7 Vancouver

GU/TU

FPInnovations, V6T 1Z4 Vancouver

Photography

Timbase AG

With this project, Timbase is supporting a greener future and local communities in the creation of quality housing. We are proud to take this important step together with our partners and the First Nation.