

Modular Living: Williams Lake House - Wooden Floor Slab, BC, Canada

2024



Modular Passive House in Williams Lake, BC: 2-bedroom wood-frame house with a wooden floor slab. Assembly time: just 1 week. Maximum energy efficiency and a comfortable living environment.

The Project

In Williams Lake, British Columbia, Canada, a modular two-bedroom residential building was constructed to the Passive House standard. By using prefabricated floor, wall, and roof panels, the on-site construction time was reduced to one week. The building features a sustainable solid wood construction and an energy concept in accordance with the Passive House standard. A distinctive feature of this design is that, unlike conventional wood-frame buildings, not only the walls and roof but also the floor slab were constructed as solid wood elements (Timber Foundation/Timbase). This consistent timber construction has a positive impact on the building's thermal performance, as it reduces thermal bridges and, thanks to the natural properties of wood, contributes to a particularly comfortable and balanced indoor climate.

The Challenge

Modular construction with a high degree of prefabrication, as in your example, shifts the complexity from the construction site to the factory. In short, the challenge lies in transferring the industrial precision and timing from the factory to the complex and unpredictable environment of construction site logistics.



Construction data

2-Bedroom Apartment Built to Passive House Standards

Construction costs

No information regarding the total construction costs has been disclosed.

Client

Yunesit's V2G 4T4 Williams Lake

Timber engineer

Timberengineering.ca

Timber construction

Paradigm Building Solutions Ltd

GU/TU

FPIInnovations, Vancouver

Photography

www.timbase.com