

Modular living Williams lake, BC, Canada

2024



Modular passive house in Williams Lake, BC: 2-room wooden house construction with wooden floor slab. Only 1 week assembly time. Maximum energy efficiency & comfortable living climate.

The project

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

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 is to transfer industrial precision and timing from the factory to the complex and unpredictable environment of construction site logistics.



Construction data

2-room apartment in passive house standard

Construction costs

No details of the total construction costs are communicated.

Client

Yunesit'in, V2G 4T4 Williams Lake

Timber engineer

Timberengineering.ca

Timber construction

Paradigm Building Solutions Ltd

GU/TU

FPInnovations, Vancouver

Photography

www.timbase.com