

EMBRACING A BETTER WAY TO BUILD

frankhouse.

August | 2023

The benefits of using prefabricated timber panels for building the Round House in Waikanae.



Round House, Wilson Way Waikanae.

| Introduction

Waikanae, a coastal town nestled on the beautiful Kapiti Coast of New Zealand, is renowned for its stunning natural beauty and beach landscapes. As an eco-conscious community that appreciates the environment, it comes as no surprise that residents who are building new homes are actively looking for new construction methods that reduce waste and speed up the construction process.

In this case study, we delve into the benefits of using prefabricated timber panels and cassettes for building the “Round House” in Wilson Way, Waikanae, owned by James Davis and built by Cameron Builders.



James Davis.



Kapiti Island, Waikanae Beach.

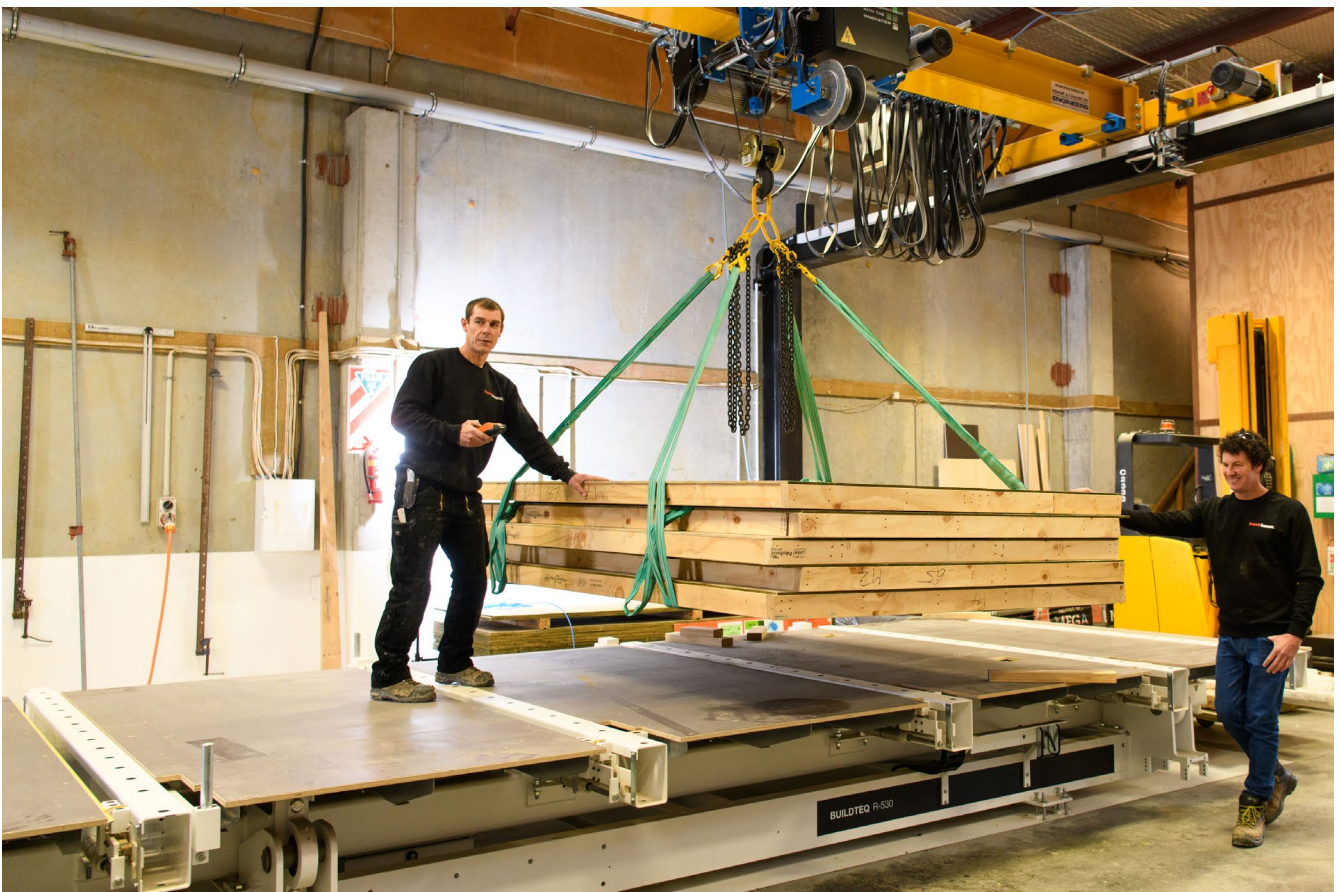
Sustainable Construction

One of the most significant advantages of using prefabricated timber panels is their sustainable nature. Timber is a renewable resource, and when harvested responsibly, it has a low carbon footprint compared to conventional building materials like concrete or steel. By using prefabricated timber panels, the environmental impact of the construction process can be reduced.



A prefabricated panel being built at Frankhouse.

Speedy Construction



Ingo True and Duane Cameron loading prefabricated panels onto a truck for delivery to site.

The off-site fabrication of timber panels allows for efficient and rapid assembly on-site. Unlike traditional construction methods that involve lengthy on-site building processes, prefabricated timber panels are manufactured in controlled

environments, minimizing delays caused by weather conditions. Assembling these panels into the Round House was like putting together the pieces of a puzzle, significantly reducing construction time.

| Cost-Effectiveness

Prefabricated timber panels can be more cost-effective than conventional construction methods. The controlled

manufacturing process reduces material waste, and the speedier construction process leads to reduced labour costs.



Ingo True loading finished prefabricated panels to a trailer.

| Aesthetics and Flexibility

The Round House design has an appealing and distinct aesthetic. With prefabricated timber panels, the design possibilities are virtually limitless. Homeowners can choose from various panel shapes, sizes, and finishes to achieve the desired look and feel. Furthermore, these panels allow for easy integration of sustainable features like large windows for passive solar heating and natural ventilation – a major feature of the Round House.





Enhanced Energy Efficiency

Timber has excellent natural insulating properties, making prefabricated timber panels energy-efficient. The panels provide superior thermal performance, helping to maintain a comfortable temperature inside the house throughout the year. This energy efficiency aligns perfectly with the sustainability goals of the community and can lead to reduced energy consumption and lower greenhouse gas emissions.



Durability and Strength

The Round House panels are engineered to withstand various environmental conditions, including earthquakes, strong winds and driving rain, making them an excellent choice for the sometimes unpredictable weather

in Waikanae. Although Waikanae enjoys relative warm and calm weather patterns, the location of the Round House, on the side of a hill, does mean that it can be impacted by adverse weather from time-to-time.



| Conclusion

Prefabricated timber panels offer an array of benefits that make them an ideal choice for anyone building a new home. From their eco-friendliness and rapid construction to their energy efficiency and aesthetics, prefabricated timber panels and cassettes deliver a better way to build when compared to traditional construction techniques.

For more information
talk to Duane Cameron
on 021 447 568 now, or
upload your plans for
pricing frankhouse.co.nz.

