PITCH HOUSE

Pitch House represents a future where a secondary dwelling becomes a bold statement of sustainability and modern living. Its striking design provides users with a robust, energy efficient, and lightweight structure, that is adaptable to a wide range of end users.

A reimagined monopitch creates a unique silhouette that offers interest on all facades. Its strong lines and high quality detailing, challenge the notion of the backyard 'shed' aesthetic - and offer a future living solution that is both highly attractive, and suitable for the needs for elderly and wider family.

Through careful, and thoughtful reconfiguration of an existing panel based construction system, Pitch House is able to deliver a sophisticated and contemporary architectural solution, completely within the current manufacturing capabilities of a local New Zealand manufacturer. Within this existing assembly line, exterior cladding options, floor plan configurations, and internal joinery finishes can all be selected by its future occupants - making pitch house a highly versatile structure.





LIFEMARK

All internal dimensions meet Lifemark standards including clear openings of 1050mm in the hallway, and 860mm wide doorways. Special attention has been given to ensuring the bathroom layout meets accessibility criteria, and a folding shower screen allows for a level surface turning circle of 1.5m. An entrance ramp and exterior lighting is also installed after the house has been positioned on piles. Internal joinery has been designed to be easy to access, and can be installed with suitable fittings and fixtures as required. The consistent joinery unit is also highly space efficient, allowing for flexible arrangement of furniture to suit all occupants.

The real strength, and innovation of Pitch House is its simplicity. The wall and roof panels comprise of an EPS core, lined with steel facings to both sides – providing airtightness and high R-value insulation. The wall and roof panels are an all-inclusive construction system combining the cladding, structure, bracing, linings and insulation into one element. This tried and tested construction system is produced by a reputable construction company offering cost effective and complete off-site prefab solutions. Pitch House is able to be fully fit-out on an existing assembly line, and transported to site on a single truck - allowing start to finish installation of a secondary dwelling to complement as existing property in only several days.

TRUSTED EPS PANEL SYSTEM COMPLETE FACTORY PREFABRICATION



RECONFIGURED ARCHITECTURAL FORM AND DETAILING





ADAPTABILITY

Secondary modules can be added to the main form to suit larger, or extended family groups. The internal layout has been designed so these independent modules can be added at a later time without major chnges to the original structure.



EXTENSION MODULE 1





SECTION BB

SITE SETUP AND INSTALLATION

The Pitch House is constructed off-site in a factory whereby the primary and secondary modules are transported to site to an expected value of around \$2,000 including GST, on a standard NZ sized truck bed. Pitch House becomes plug and play with only minimal on-site work required. Foundations comprise of NZS 3604 timber piles, water supply can be plugged into a house tap, power is self sufficient by way of solar, storm water collected on the roof can be discharged to value does not include for the solar panels component, soak pits if the ground is suitable, or if not, then the drainage which could be added to the purchase price for around and foul water will need to be connected to mains systems. \$10,000 on request, nor does it include appliances such

COST

The square metre cost of Pitch House has been designed assuming at least 50 units would be sold. This figure includes the fold-down deck and ramp, built-in joinery unit along the south wall, all sanitaryware and necessary fixtures/fittings to get the house up and running. The





FLEXIBILITY ON SITE

The primary base form of the Pitch House has a simple rectangular footprint allowing it to be positioned on site in varying orientations. The floor layout can be constructed in a mirrored orientation to suit North direction. This allows Pitch House to be easily adapted to challenging and confined sites commonly seen amongst suburban rear yards.

- 1. Hinged Perforated Metal Screen
- 2. Fold Down Bed
- creates multipurpose room.
- 3. Wardrobe
- 4. Washing Machine
- 5. Utility/storage
- 6. Photovoltaic Solar Panels
- 7. Fridge
- 8. Kitchen Sink
- 9. Cooktop
- **10. Low Emission Wood Burner**
- 11. Desk 12. Fold Down Deck



implemented where connection to mains is not viable.

A suitable on-site foul water system could also be easily as fridge, washing machine or television etc. The off-theshelf purchase price for the three options would be in the order of \$80,000 (1-bed house); \$108,000 (2-bed house); \$150,000 (3-bed house). Prices would likely come down further if sales uptake is greater than 50 units.

