



RESIDENTIAL HOUSING SYSTEM



Fast Fix is a range of Structural Insulated Panels (SIPs) designed for the Australian market due to the increasing demand for affordable, innovative and energy efficient construction materials and methods.

The Fast Fix range consists of uniquely designed Wall, Floor and Roof panels that together formulate a strong, eco-friendly building system which brings about many benefits for the owner and builder.



## What are SIPs?

SIPs (Structural Insulated Panels) are a high performance modular building product, essentially made up of an insulating foam-core sandwiched by outer facings of various materials.

SIPs have been used in the building industry for more than 40 years, but the market has always been unwilling to adapt and breakaway from traditional building methods.

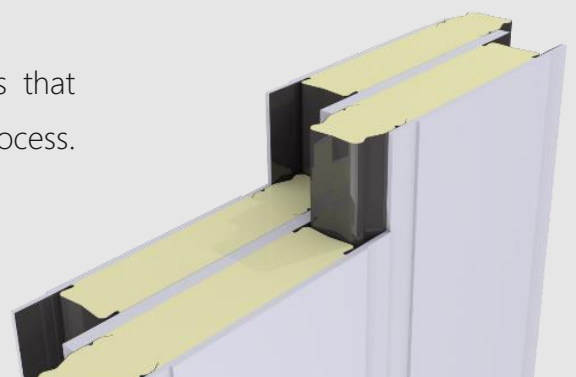
Recent and increasing demand for innovative, eco-friendly building systems in the Australian market have made SIPs one of the fastest growing and accepted systems available.



All Fast Fix products are made up of a polyurethane (PUR) or a polyisocyanurate (PIR) insulating core that is structurally and thermally superior to any other insulating material. PU or PIR panel cores are thermally bonded to the panel skins during the manufacturing process.

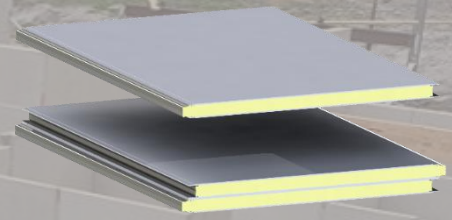
Fast Fix products are designed specifically for its intended use, whereas most SIPs manufacturers offer one panel configuration for walls, floor and roof, which then leads to unnecessary cladding and linings.

All Fast Fix products have unique, integrated joining systems that strengthens the panel and allows a fast and simple installation process.



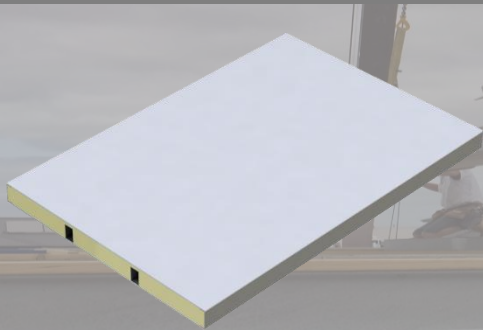
## WALL PANELS

Fast Fix Wall Panels come in a double and single configuration used as an external and internal wall, respectively. The wall panels have fibre cement skins allowing most finishes to be directly applied to the panel. The unique, offset tongue and groove joining system ensures there is no thermal bridging and thermal values remain intact.



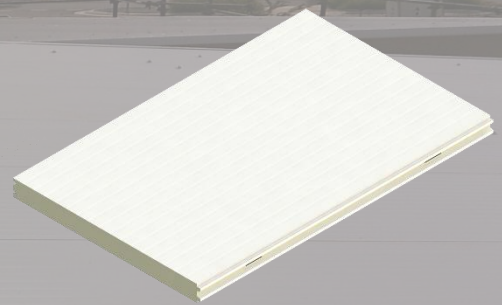
## FLOOR PANELS

Fast Fix Floor Panels are sound absorbing, highly insulated and rigid. The panels are capable of large spans and are incredibly simple to install. The panels strength comes from the combination of steel RHS embedded into the dense insulation core. The flooring system can be installed onto most framing systems for challenging site terrains, or directly onto Fast Fix Walls as upper level flooring.



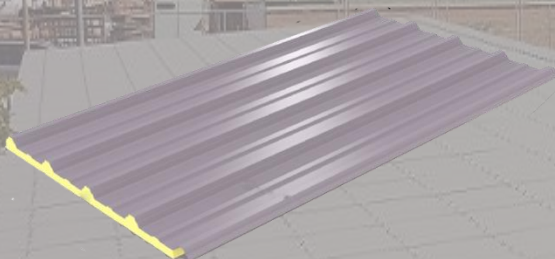
## ROOF PANELS

Fast Fix Roof Panels come in a range of thicknesses to suit thermal and spanning requirements. The panels are made up of two pre-painted steel skins bonded to the insulation core, with a finger-joint and cam-lock joining system. Fast Fix Roofing can be used as the roof cover, framing, insulation and ceiling all in one. It can be directly fixed to Fast Fix Walls without the need for any framing or supports.

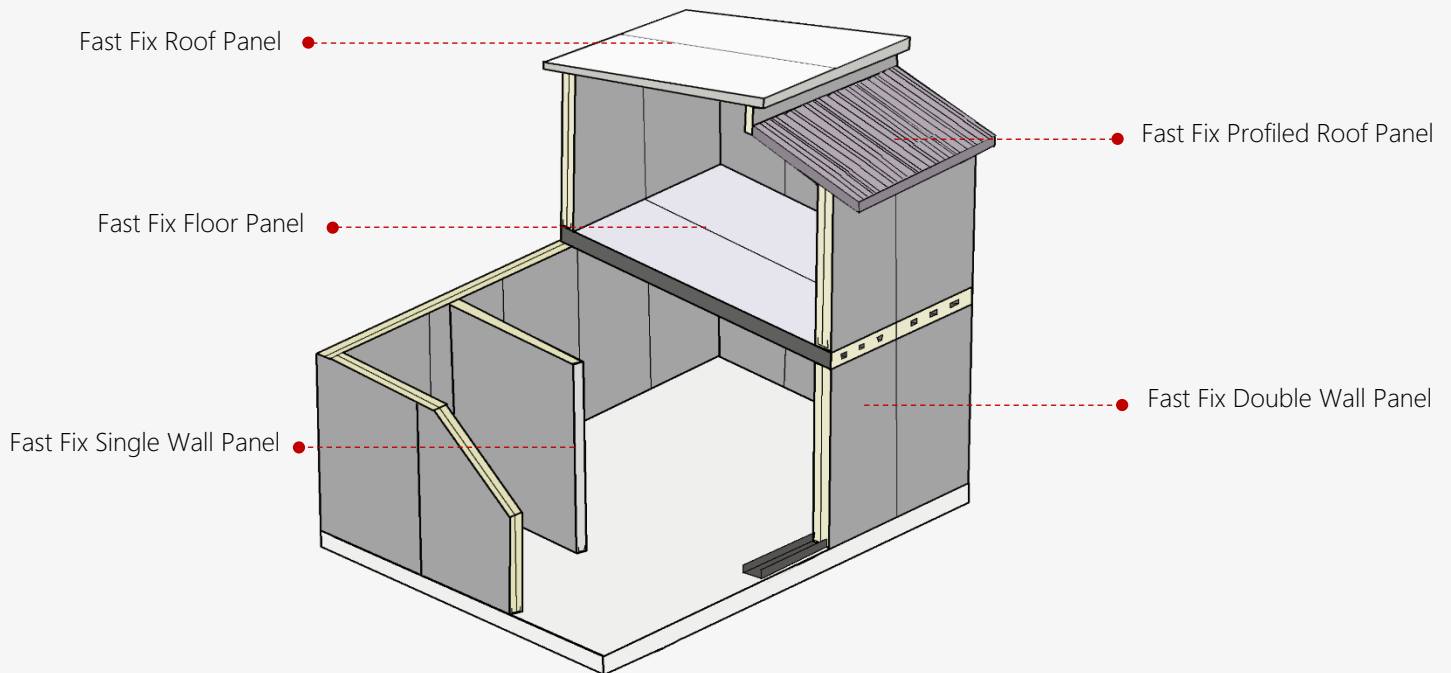


## PROFILED ROOF PANELS

Fast Fix Profiled Roof panels are an alternative roofing option in the Fast Fix product range. They have a traditional profile roof cover with a rigid insulation core and the option of a steel sheet ceiling on the underside of the panel. Just as the Fast Fix Roof Panels, the profiled option can be used as an all-in-one roofing product, consisting of the ceiling, insulation and roof cover.







The Fast Fix Housing System is one of the only complete multi-storey systems available that achieves structural requirements and energy efficient ratings without needing additional trades and materials.

Reaching Lock-up Stage is one simple installation process that saves the owner and builder a considerable amount of time and money. It allows the builder to draw claims faster and the owner to move in sooner.

## Hybrid Systems

Fast Fix products are by no means restricted to use with other Fast Fix Products. Fast Fix panels are extremely versatile and can be combined with many other building materials and systems to achieve various project objectives. The high thermal values, ease of installation and modular nature of Fast Fix products allow it to further benefit many building materials such as brick walls and timber-framed roofing.



*Fast Fix Single Wall being used as the internal leaf in a brick cavity system*



*Fast Fix Profiled Roofing used as the roof cover, insulation and ceiling on Brick Walls*



*Fast Fix Wall Panels used with a first-level concrete floor and Timber-Framed Roof*

# Designer/Builder/Owner Benefits

## Energy efficient

- High thermal values and airtight construction drastically reduces the need for heating and cooling.
- Low environmental impact from all stages of manufacturing, construction and residency.

## Builder Benefits

- Incredibly Fast to Install – Reducing labour costs and time on site
- Pre-cut Modular Panels – Minimal wastage onsite compared to traditional building methods
- Simplicity of Construction – Replacing the need for excessive framing, masonry and cladding.
- One Installation Team - Reduced reliance on trades
- Pre-positioned conduits and service areas make it easy for trades to work with
- Reduced supply chain from Slab Down to Lock-up Stage
- Reduced Scaffolding & Equipment Hire costs

## Design Flexibility

- Larger Floor Space – Thin walls compared to double brick and veneer wall systems
- Simple integration to other building materials and structures
- High ceilings - High wall panels and no roof framing in the way easily allows for high and raked ceilings.

## Comfortable Living

- High thermal and acoustic values shield residents from outside conditions
- No creaks or noises compared to timber wall and roof structures
- Low maintenance – White Ant and Termite Proof