sipform

Structural Insulated Panels

Adapted to the harsh Australian environment, Structural Insulated Panels are proving their place in the delivery of affordable, energy efficient & Architecturally aesthetic homes.

Efficient, resistant & doesn't cost the earth

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PUSHING THE ENVELOPE TOWARD

10 STAR RATING

★★★★★★★★★★

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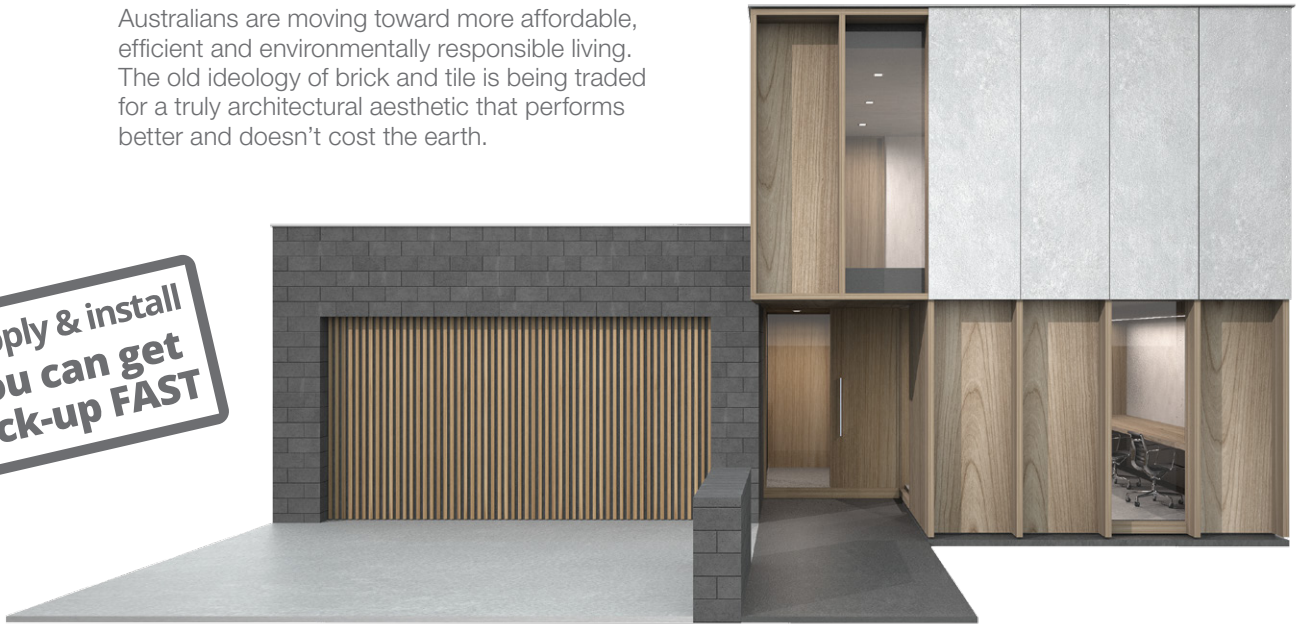
Going Green

Australians are moving toward more affordable, efficient and environmentally responsible living. The old ideology of brick and tile is being traded for a truly architectural aesthetic that performs better and doesn't cost the earth.



We supply & install so you can get to lock-up FAST

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SipForm System Benefits

- A more comfortable, liveable home
- Excellent sound absorbing properties
- Architecturally inspired product
- Healthy, non-allergenic environment
- Precision engineered & fully installed
- 50+year lifespan, pest & mould resistant
- Strong - earthquake & cyclone resistant

SipForm System Savings

- 50% faster that normal construction
- Less demand for trades & labour
- Reduce transport & site deliveries
- Minimises excavation & disturbance
- Less delays from poor weather
- 30% less waste generation & disposal
- Save up to 60% on energy costs

Emergence of Technology in Building

Though not new technology, for the first time SIPS combine materials common to Australian Architecture, whilst developing them into a complete building system.

A system that provides real cost reductions on site, less site disturbance, significant reductions in trades, waste, transport, supply chain reliance and overall demand on energy. And then, most significantly, time!

Environment & Comfort Hand in Hand

At the panel's core, EPS (Expanded Polystyrene) is utilised for it's inherent properties. This material is known throughout the housing industry for it's structural integrity and high performance when used to insulate the home.

Homes built utilising this tried and tested technology are proving more comfortable, and lower on energy demand both in construction and the lifetime of their enjoyment.

Energy Efficiency	The EPS core creates a fully insulated envelope, whilst the integrated jointing system ensures thermal bridging is eliminated. You get better control over comfort and less reliance on mechanical heating & cooling.
Building Efficiency	Engineered off site to factory precision gives faster, more accurate on site assembly. This means less site disturbance, less trades, greater safety and huge reduction in haulage costs and waste generation.
Material Efficiency	Rationalised to use standardised material sizes to minimise waste. This reduces impact on landfill, the environment and the home owner's pocket. Waste generated from building is currently a major contributor to landfill.
Storm Resistant	Extreme weather events have become common. The SipForm system is Engineered to resist severe storms, earthquake and cyclones. The right material choice can also make it easier to recover the home after flooding.
Fire Resistant	The precision of the panels creates an impervious envelope, that when coupled with robust external materials help safeguard the home against bushfire. This is reassuring given the increasingly elevated threat.
Termite Resistant	Termites and introduced wood borer species can prove costly. Pest resistant materials ensure you won't suffer such costly consequences, whilst rotting, mold and weathering can almost be eliminated.

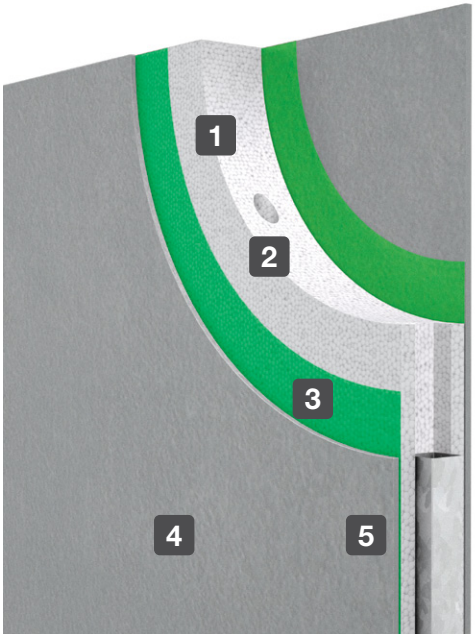
What are SIPS?

SIPS are lightweight composite panels, the internal and external cladding are bonded to the insulated core to create a thermally efficient and robust envelope to the home. We've developed this system so you now have optional finishes both internally and externally.

SIPS are engineered to permit rapid installation, they combine traditional on-site construction elements: structure, cladding, lining and insulation into a single prefabricated structural panelised system. When you consider these savings in addition to the system's high performance, the benefits are obvious and remarkable.

1. Insulated EPS core for internal comfort
2. Pre-profiled service conduits
3. High strength bonded membrane
4. Numerous Architectural cladding options
5. Steel jointer for a cyclone proof shell

Let's take a look



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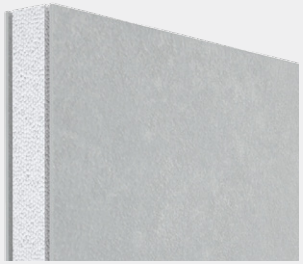
MgO Board

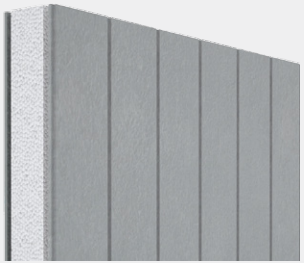


Plywood

OSB Board

Woodsman

Weathertex



Fibre Cement

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Integrated SipFloor

An insulated structural flooring system installed from the ground up, fast! A clever footing system reduces excavation, disturbance and the need for concrete.

Cost savings and comfort can be maximised when SipFloor is utilised on sloping sites, reactive soil types or in extreme climates.

Slab on Ground

Within inner urban areas, where concrete floor slabs are still the norm, SipWall can be utilised for its speed and overall increase in thermal performance.

SipForm reduces build time and costs in two storey mixed construction where masonry is used at ground floor level.

Conventional + SIP

When extending a home, or in the case of a second floor conversion, structure may dictate the use of a more conventional flooring system.

SipFloor used over the floor structure provides much better insulation and greater spans than traditional flooring.

A complete, more efficient, Building System

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What's your Next Step

Architects and Builders are increasingly responsible for the home's performance and assurance of its energy efficiency. For the home to respect the environment, to meet statutory demands, and the demands of the client themselves.

Early considerations in designing to use SIPS may make for further cost savings. So when moving to more sustainable construction we encourage you to get the run down early.

Build Faster & More Efficiently

- Be on trend with new technologies
- Design & build energy efficient homes
- Meet Bushfire & Cyclone requirements
- Reduce your site costs & logistics
- Reduce the time spent on site
- Be competitive in this growth market

External Cladding	MgO Board	Plywood	OSB Board	Woodsman	Weathertex	Fibre Cement
Panel Thicknesses (mm)*	108 | 138	110 | 140	110 | 140	108 | 138	108 | 138	104 | 134
Weight per m^2 *	22.6 kg	15.5 kg	15.8 kg	18.9 kg	18.9 kg	19.1 kg
Insulation R Values*	2.34 | 3.03	2.40 | 3.08	2.40 | 3.08	2.34 | 3.03	2.34 | 3.03	2.30 | 2.99
Max. Panel Width Nom.	1 200 mm	1 200 mm	1 200 mm	1 200 mm	1 200 mm	1 200 mm

*Fibre Cement Internal

Available Heights (mm)	2 400	2 700		2 400			2 400	2 700	3 000	2 400	2 700	3 000	2 400	2 700	3 000	2 400	2 700	3 000
Panel Weight (kg)*	65.0	73.1		44.5			45.5	51.2	56.9	54.5	61.3	68.1	54.5	61.3	68.1	55.0	61.9	68.8

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