



An ultra-efficient European style construction system for everyone - made in Australia by CARBONlite

Attention architects & home builders:

**The next generation
of energy efficient
construction is here!**

Are you ready ?

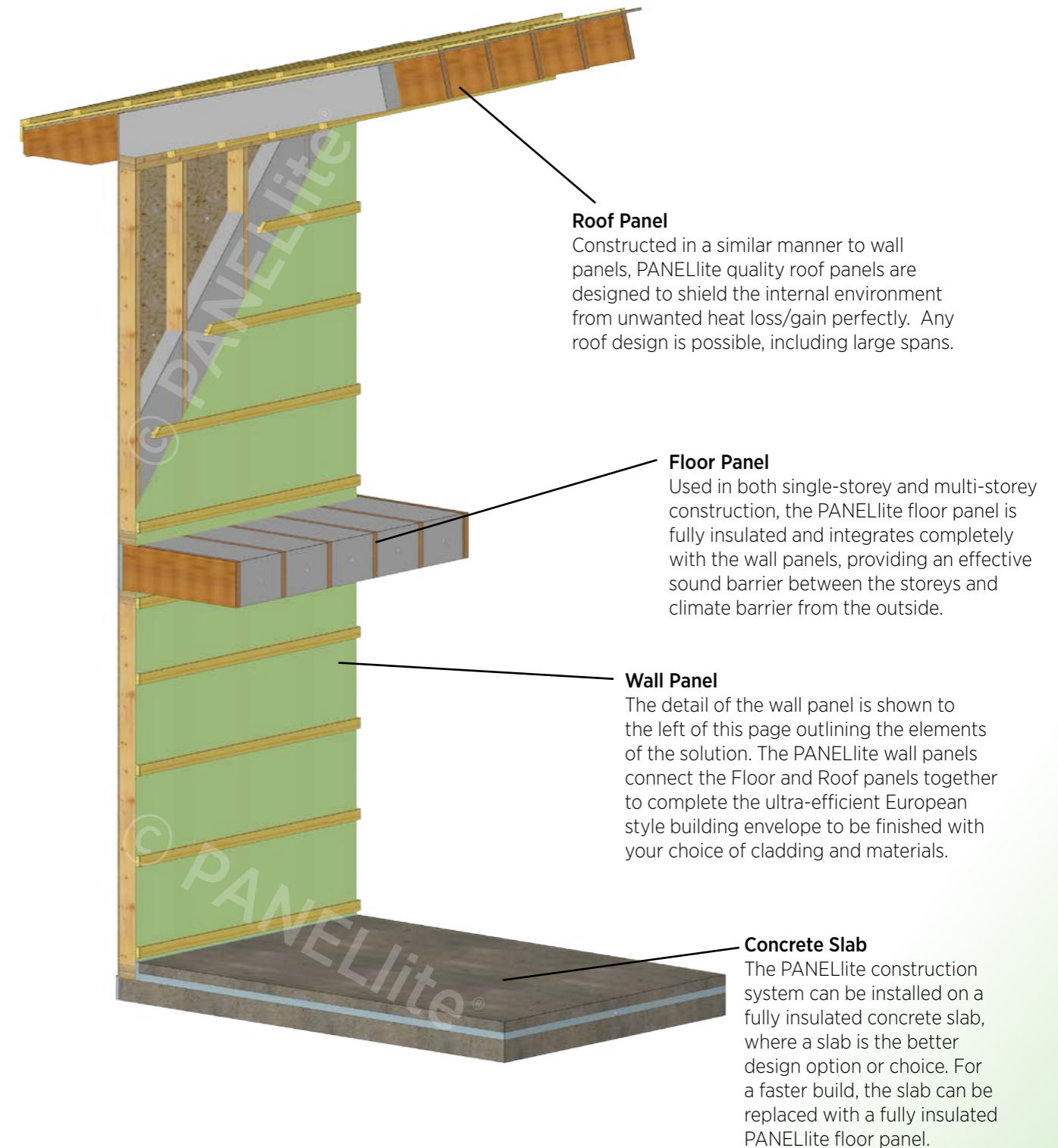
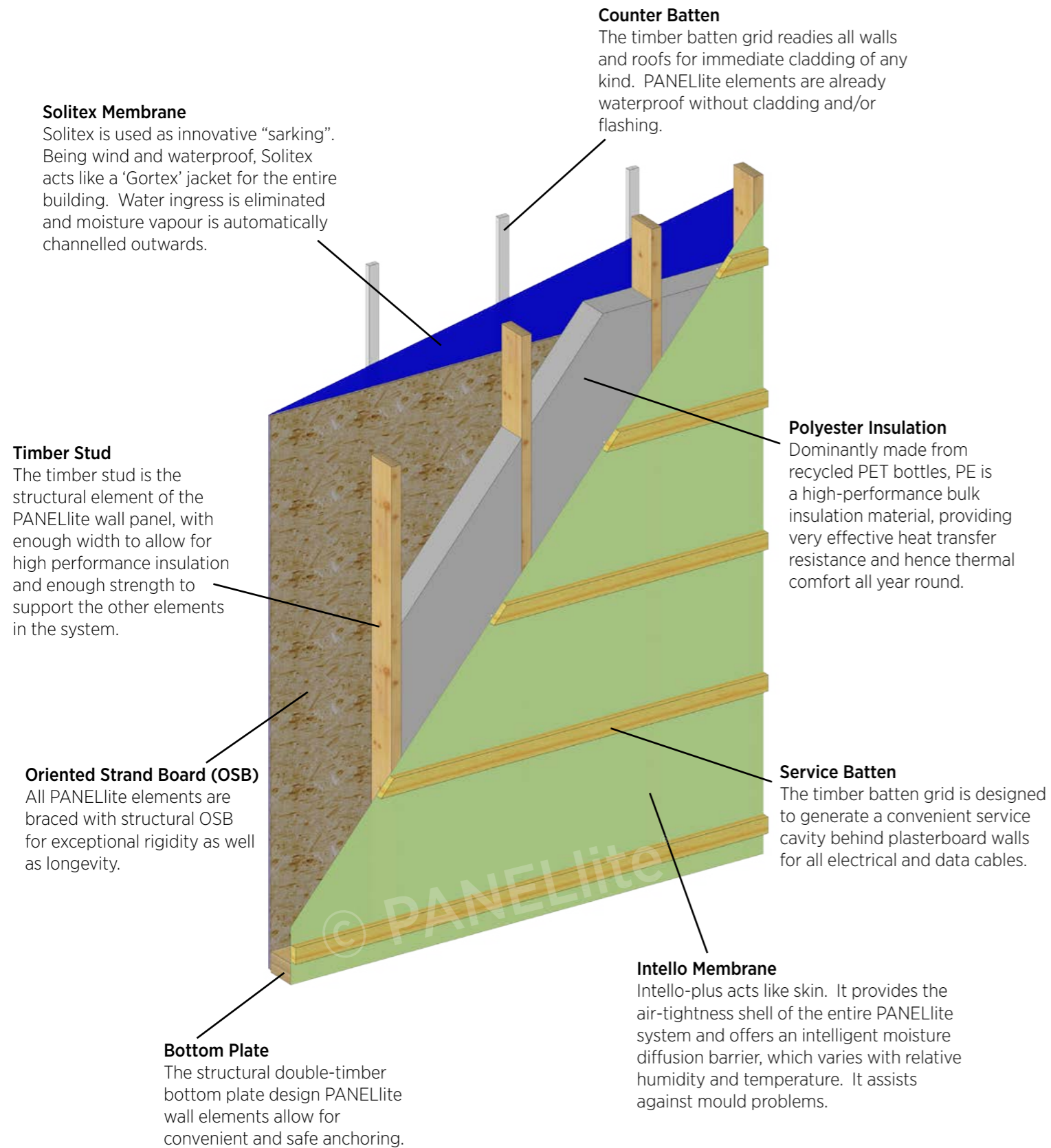


What exactly is PANELLite®?

"PANELLite is a prefabricated timber floor, wall and roof system which can greatly reduce construction effort, time and costs, while providing excellence in energy efficiency."

PANELLite is precision-fabricated in the factory and delivered to site on flat-bed crane-trucks, ready for immediate site installation. "Lock-up" of the building can be typically achieved in a single day.

PANELLite can increase home energy efficiency by up to 90% when compared with BCA-compliant conventional construction methods. "10-star" or European "Passivhaus" performance is typical.



Why is PANELLite® a healthy solution?

Studies show that we actually spend 90% of our lives indoors and 2/3 of that time in our own homes.

PANELLite may reduce allergies. As PANELLite delivers airtight building envelopes, the risk of building contamination by pollutants from outside air is reduced, particularly in combination with energy recovery ventilation (ERV) systems that employ total air-filtration.

PANELLite will help reduce mould. When sealing the building envelope with a smart double-membrane system and when eliminating all thermal bridges, the entire building structure is protected from detrimental moisture build-up and associated dew formation.

Why Home Owners love PANELlite®?

Very comfortable living. Disconnect from any adverse hot or cold outdoor climates and ultra-quiet living (eg. with triple-glazing).

Healthy living space. Suppression of thermal bridges and associated mould formation and endless fresh-air when using ERV system.

Truly sustainable building. Need for heating and cooling virtually eliminated all year round, with the building being fully solar-PV-powered.

Reduced construction time. Moving-in or rent-earning occurs much sooner due to off-site prefabrication, independent of the weather conditions on-site.

Exceptional construction quality. Reliable off-site prefabrication quality, with blower-door testing as proof of performance on-site.

Risk management if leasing. Exceptional quality and fast build reduces risks from litigation due to sub-performance and payment challenges.

Why Architects love PANELlite®?

Regained architectural freedom. Elimination of BCA compliance design limitations thanks to outstanding building performance.

Management simplification. Approvals, design, construction and scheduling improvements, due to fewer weather delays, a fully-engineered system and readiness for cladding and “rough-in” after erection on site.

Client satisfaction. Co-achieving great design, quality build, cost management, energy efficiency, ultra comfort and healthy living.

Why Builders love PANELlite®?

Accurate project scheduling. Dependable delivery with reduced site work complexity (fewer sub-contractors and immediate “rough-in”).

Quality build in less time. Reduction of weather-related delays, weather damage and wall straightening, achieving exceptional performance on-site in fewer days.
A faster build time = A higher project turnover = More projects per year

Security of site and payment. Achievement of immediate “lock-up”, resulting in site security and faster release of payments.

Professional reputation. Recognition as an outstanding innovative builder by clients, inclusive of moisture management and energy efficiency.

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