RAPID CONSTRUCTION | LIGHTWEIGHT | ECONOMICAL

A more efficient way to build.

High-performance engineered timber panels for residential and commercial buildings — prefabricated in NZ, long-spanning, and fast to install.

01 **Long spans*** - Can accommodate up to 14m roof and 9.5m floor diaphragms, subject to design.

02 **Lightweight** — reduces seismic mass and downstream structural cost.

03 **Fast prefabricated installation** saves up to weeks of time and P&G costs.

04 **Immediate safe working platform** from the moment panels are landed.

05 **Fewer piles and sub-floor supports** required — simpler foundations.

06 **Sustainable & High-Performance** low-carbon, NZ timber, high-performing foam insulation

WALLS | FLOORS | ROOFS



01 WALL PANELS

PANEL SIZE

Up to **3.0 m high × 12.0 m long**

R-VALUE

R3 typical — customisable R1.8–R4 (up to R8 with a second spray)

LVL FRAMING

90, 140 or 190 mm

EXT. SKIN

OSB-3 structural skin — contributes to bracing and, with the foam, forms an airtight barrier

SERVICES

Open stud internally allows service runs without additional battening



02 FLOOR PANELS

PANEL SPAN

Up to **9.5 m*** — span by web depth (140–610 mm)

R-VALUES

R2.5 typical — up to R8 depending on joist depth

TOP SKIN

25 mm, 36 mm or 45 mm crossband LVL

JOISTS

Typically **600 mm centres**, subject to design requirements

PLATFORM

Immediate safe working platform once landed



03 ROOF PANELS

PANEL SPAN

Up to **14 m***

R-VALUES

R6.6 typical — up to R8 depending on rafter depth

RAFTERS

140, 190, 240 or 300 mm

SKIN

8 mm OSB-3

CLOSE-IN

Brings forward the water-tight date on site

* See point 01

Two panel configurations. One efficient way to build.

FLOORS & ROOF DIAPHRAGMS

DOUBLE T PANEL

A stressed-skin diaphragm panel engineered from LVL manufactured from NZ grown Radiata Pine and OSB. Used for long-span floor and roof structures across both commercial and residential builds.

HIGHER LOADS & LONGER SPANS

BOX BEAM PANEL

A deeper, higher-capacity panel for projects with larger loads or spans beyond the Double T range. Delivered as a complete structural element ready to crane into place.

HOW POTIUS™ COMPARES

SYSTEM	STRUCTURAL	CERTIFICATION	BEST FIT
POTIUS™	14 m roof / 9.5 m floor spans* · integrated diaphragm bracing · insulation + services cavity in panel	Project PS1 (CPEng-certified) · BRANZ/CodeMark on roadmap	3–6 storey apartments, townhouses, medium-density residential + commercial
SIPS	High R-value skin · separate stud/joist frame still required · smaller format, more joints	Manufacturer-specific	Residential wall/roof panels
CLT	Inherent wall bracing · established fire-test data · heavy, high fibre mass	CodeMark (major suppliers)	Commercial floors/structure
F&T	NZS 3604 default · structure, insulation, services as separate trades · more thermal bridging	Deemed-to-comply, NZS 3604	Residential/commercial, current default

WHERE POTIUS™ PERFORMS

- Long spans with fewer supports and fewer piles
- Stress-skinned panels contribute to bracing demand
- Closed-cell foam insulation applied in factory
- Larger panels, fewer joints, fewer site operations
- Lighter structure reduces seismic mass
- Services run within the wall, no service cavity
- Intertenancy wall solutions
- Faster close-in — brings the water-tight date forward

RESOLVE EARLY IN DESIGN

- Up-front panel cost sits above conventional framing — assess against programme and structural savings
- Complex pitched roof forms are limiting for panelisation and rapid construction
- Complex junctions and geometry need coordination at concept stage
- Crane access and panel sizes set the delivery sequence

THERMAL PERFORMANCE — PU spray-foam insulation is factory-applied to Potius™ panels to achieve the desired R-value, specified to project performance requirements before delivery.

Comparisons reflect Potius' assessment of typical characteristics of each building system category. Performance, cost, programme, and compliance outcomes vary by manufacturer and project-specific engineering, design, and site conditions.

* See point 01 on front page

Build smarter, build faster, build better.

TALK TO THE TEAM

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