



- Advanced modular prefab home technologies
- Remarkably rapid installation 7 days/unit (b-home<sup>®</sup> Lite/Ultra-Lite)
- More rigid and earthquake-resistant than bricks (b-home<sup>®</sup>)
- b-home<sup>®</sup> Lite : economical, suitable for low-cost housing projects with urgent schedule
- b-home<sup>®</sup> Ultra-Lite : earthquake-resistant ultralight structure, reduces foundation requirement, also suitable for floating homes and projects on soft soil
- Extensive thermal insulation, comfortably cool, and saves A/C electricity
- Prefabricated modules with specific sizes and shapes, significantly reduce project waste



PPR Housing Project - Perak, Malaysia (88+ Unit)

- b-panel® : structurally optimized exo-skeleton monocoque
- Earthquake, typhoon, and break-in resistant
- Rapid construction without formwork and structural columns, shell completion in 2 weeks (Type 36 & 56)
- Thermal insulation on all wall surface for up to 40% A/C energy savings (thermally-insulated roof with b-deck®)
- Modular set shipped complete, including all panels and steel mesh reinforcements—ready for delivery within 72 hours from ordering
- Available in type 36, 56 and 108 (2 story design)

Type 36



- 2 bed room/ 1 bathroom
- Living room/ Dining room+kitchen
- Carport

Type 56



- 2 bed room/ 1 bathroom
- Living room
- Dining room+kitchen
- Carport

Type 108



- 2-story design
- 3 bed room/ 2 bathroom
- Living room
- Dining room+kitchen
- Family room (2nd floor)
- Carport

Version 1.4 – Specification and design may change without notice



#### Construction options :

- Panels + steel reinforcements
- Panels + b-deck® insulated roof + steel reinforcement
- Any of the above + b-panel® mix mortar set

#### Technical specifications :

- Wall height : 3 m
- Wall thickness : 10 cm



- Competitive alternative for low-cost housing with urgent schedule
- Rigidity of wall comparable to bricks
- Rapid construction within 1 week - no need for plaster or skimcoat

### Specifications

- Wall : ecolite<sup>®</sup> panel 60 mm
- Structure : Integrated minor columns
- Roof : Spanroof AZ-150 0.35 mm, FR15R (fire-retardant) b-foam<sup>®</sup> thermal + noise insulation 40 mm
- Type : 36 and 45



- Ultralight structure at under 100kg/m<sup>2</sup> floorplan, suitable for floating structure and remote locations
- Rapid construction within 1 week - no need for plaster or skimcoat

### Specifications

- Wall : b-wall<sup>®</sup> panel 68 mm
- Structure : Galvalume AZ-150t, G550 (C-75 & C-78 t : 0.7 mm) SNI 07-4096-2007, ASTM-A 792(M)-99
- Roof : Spanroof AZ-150 0.35 mm, FR15R (fire-retardant) b-foam<sup>®</sup> thermal + noise insulation 40 mm
- Type : 36 and 45



	b-home®	b-home® Lite	b-home® Ultra-Lite	Conventional (Bricks)
Monolithic structure / earthquake resistance	✓✓	✓	✓✓	✗
Weight reduction	✓	✓	✓✓	✗
Full prefab / Semi prefab	✓	✓	✓✓	✗
Project waste reduction / elimination	✓✓	✓	✓✓	✗
Structural shell installation speed (1 team of 8 crew)	14 day/unit	7 day/unit	7 day/unit	25-30 day/unit
Wall weight	< 150 Kg/m²	+/- 85 Kg/m²	< 20 Kg/m²	> 150 Kg/m²
Building weight per m2 floorplan	+/- 200 Kg/m²	+/- 150 Kg/m²	< 100 Kg/m²	+/- 350 Kg/m²
Turnkey option	✓	✓	✓	?

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# BETON WORKS



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