



# RAKIT RUMAH INDONESIA

Partner of **PT Building Technologies Indonesia**



*"PT Rakit Rumah Indonesia is a company engaged in the construction of houses that are fast, neat and strong.*

*The materials that we used are lightweight concrete sheets.*

*In Indonesia, this concrete material is relatively new, begin to be used in 2006."*

## PT Rakit Rumah Indonesia

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The Door is made from lightweight concrete and the Door Frame is aluminium.  
The dimensions are : 37 x 720 x 2100 mm; 37 x 820 x 2100 mm; and 37 x 900 x 2100 mm



This Bedroom Module is used lightweight concrete for wall and roof. This module is reinforced by SHS 100 x 100 mm steel structure and it has flat roof, include bathroom inside.  
The dimension is : 300 x 360 x 600 cm



This Kitchen Table is made from lightweight concrete and it has door from aluminium and glass.

### Lightweight Concrete Panel

#### A. Wall Panel

Thickness (mm)	Width (mm)	Length (mm)	Weight (Kg)
35	600	3000	56
50	600	3000	70
75	600	3000	90
100	600	3000	120
* R 50	600	3000	54
* R 75	600	3000	75
* R 100	600	3000	95
* Without skin, reinforced by wiremesh Ø 6 mm			

#### B. Floor Panel

Thickness (mm)	Width (mm)	Length (mm)	Weight (Kg)	Support Distance (mm)	Allowable Load (Kg/m <sup>2</sup> )	Reinforcement
75	600	3000	100	1500	380	Wiremesh M6
100	600	3000	120	1500	450	Wiremesh M6

### Technical Properties

- **Specific Gravity** 700 Kg/m<sup>3</sup>
- **compressive strength** 34 Kg/cm<sup>2</sup>
- **flexural strength** 28 Kg/cm<sup>2</sup>
- **Sound Transmission Class (STC)**
  - Panel 35 mm reduce noise up to 20 dB
  - Panel 50 mm reduce noise up to 27 dB
  - Panel 75 mm reduce noise up to 34 dB
  - Panel 100 mm reduce noise up to 40 dB
- **Fire Rating**
  - Panel 35 mm up to 59 min.
  - Panel 50 mm up to 90 min.
  - Panel 75 mm up to 120 min.
  - Panel 100 mm up to 200 min.