

Ecovibe Smarthouse Technical Specifications



Ecovibe Smarthouse is not just a house, it's an advanced new technology in pre-manufactured living designed to individual requirements of families, remote area housing, holiday homes, office space or complete resorts.

The Smarthouse, complete with all its components, is transported to your site on a 40foot container truck. Once the container sized Smarthouse is lifted from the truck and placed on its foundations it is ready to be unfolded.



It takes 5 – 6 people approximately 1 week to erect with instructions supplied by Ecovibe.

Alternatively Ecovibe can provide a full turn-key supply and build package.

The result is a distinctive modern, comfortably designed living, holiday or working environment.

The 3 bedroom Ecovibe Smarthouse is an 82m² internal living space with open plan living area, 3 bedrooms, kitchen, bathroom / laundry.

It is supplied with a complete set of factory tested services including electrical and plumbing designed using

energy and water efficient fixtures and fittings.

All materials are low-maintenance and durable utilizing recycled materials, composite wall cladding and solid bamboo flooring.

The Smarthouse features numerous passive energy efficient elements fitted with double glazing, fully insulated roof and floor exceeding Australian BCA energy efficiency requirements.

Dimensions and Weight

Package Size: ISO Standard 1161 (shipping)

- Length: 12192mm
- Width: 2435mm
- Height: 2896mm

External Open Size

- Length: 12192mm
- Width: 6940mm (excluding decks)
- Height: 3225mm (excluding veranda's)

Internal Open Size: 82m²

- Length: 12012mm
- Width: 6760mm
- Height: 2960mm(max) 2320mm(min)

Mechanical Properties (shipping)

- Gross Weight: 20,000kg
- Floor Load: 2.0kN/m²
- Roof Load: 1.5kN/m²



Design Specification

Framework

- Main Frame: rolled steel
- Internal frame: cold formed steel
- Underside: light gauge galv steel
- Wall/Window Framing: anodised aluminium

Surface Treatment and Paint Specification

- Acid dipped steel with velamen finish
- 10um anti-rust undercoat
- 60um velamen finish coat.



Floor Details

Composed (outer to inner)

- Outer panel: 0.5mm galvanized steel sheet.
- Insulation: 100mm rockwool.
- Vapor resistance: 80um polythene velamen.
- Base panel: 18mm plywood sheet.
- Floor: 17mm bamboo floor panel.
- Allowable load: 3.5kN/m²
- Heat transfer coefficient: K=0.45W/mK

Wall Details

- External Panel: 18mm aluminium composite panel (ACP)
- Framing: 1.6mm anodised aluminium
- Glass: toughened, double glazed
- Internal Panel: 3mm aluminium composite panel (ACP)

Heat transfer coefficient: K=0.83W/mK (avg)

Roof Details

Composition (outer to inner)

- Outer panel: 0.5mm thick colourbond steel.
- Base panel: 12mm thick plywood sheet.
- Insulation: 100mm rockwool.
- Vapor resistance: 80um thick polythene velamen.
- Ceiling: 18mm thick hollow PVC panel.
- Allowable load: 1.5kN/m²
- Heat transfer coefficient: $K=0.45W/mK$

Electrical Details

General

Electrical Distribution box fitted with RCD.

Internet, phone and TV interconnect panel.

150lt electric boosted solar hotwater system.

2.5kW split air conditioner.



Description	Kitchen	Bathroom	Living Area	Bedrooms
Double Power Point	5	2	6	2
Phone			2	1
Internet			2	1
Downlights	2	4	10	2
Exhaust Fan		1		

Fixtures / Fittings

Kitchen

Reconstituted stone benchtop.

Stainless Steel sink (single bowl)

8 Cupboards (4 with solid doors, 4 with opaque glass in-fills)

3 Drawers (2 small, 1 large)

Single Lever Sink Mixer

Dishwasher cold water and waste connections

Bathroom

Vanity

Single Lever Vanity Mixer

Shower (flexible water efficient shower head)

Single Lever Sink Mixer

Dual Flush Toilet

Washing Machine cold water and waste connections

PVC vinyl flooring

Extractor Fan

Mirror



Available Options

Atmospheric Water Generator

Water Purification System

Solar Power System

Solar Air Conditioning

Weatherproof LCD TV