### **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.





energy and water efficient fixtures and fittings.

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

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: 12192mmWidth: 2435mmHeight: 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.

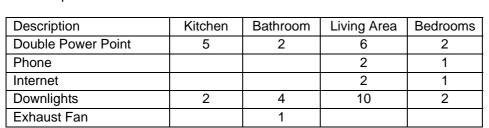
· Allowable load: 1.5kN/m²

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.



# 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



Atmospheric Water Generator Water Purification System Solar Power System Solar Air Conditioning Weatherproof LCD TV



