



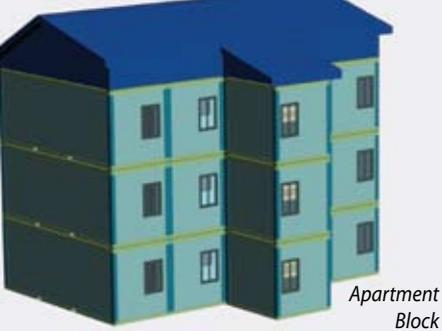
**ALLENBY HOUSING**



**MODULAR BUILDING SOLUTIONS**



[www.containerhouses.com](http://www.containerhouses.com)



Apartment Block



Dormitory



Apartment Block

## About our Company

Allenby Housing – Modular Building Solutions, is an Intercon Holdings company specialising in the planning, design and manufacture of low-cost and affordable housing solutions as well as public facilities such as schools, clinics, community centres, offices, etc

Intercon Holdings (PTY) Ltd is a diversified group which operates within the following sectors:

- ◆ Professional consulting
- ◆ Engineering and construction
- ◆ Real estate and development
- ◆ Manufacturing sector
- ◆ Investments

Allenby Housing manufactures and supplies all of its modular housing building systems, from its operation within South Africa as from its operations in Asia.

Allenby Housing has its head office in Durban, South Africa and operates globally.

## Usages of the Modular Building System

The modular building system is a versatile, cost effective system that can be used for:

- ◆ Residential housing accommodation
- ◆ Offices and classrooms
- ◆ Health care facilities (clinics, etc)
- ◆ Dormitories
- ◆ Shops, telephone kiosks

## Technical Specifications

### STEEL FRAMEWORK

**Material:** cold formed steel profiles in a thickness of 2 to 4mm

**Surface working** is either zinc plated, epoxy ground coat in a thickness of 30µm, final viny acrylic coat in a thickness of 60-70µm **OR** electric galvanization in the thickness of 10µm, Epomarine GX primer (epoxy resin, amine adduct and special additives) in a thickness of 10µm, Rabamarine BTD (chlorinated rubber resin) in the thickness of 60µm thick.

### WALLS

#### Steel Panels

The steel insulated panels is an ideal alternative to conventional walls because of its strength and energy saving capabilities. Our insulated panels are made of a Polystyrene (EPS) insulator and clad with 0.4mm galvanised pre-painted steel sheet on the outside and a 0.3mm galvanised and pre-painted steel sheet on the inside.

Side panels width: 1145mm; total panel thickness: 60mm. Fully interchangeable panels fit into the long and short side.

- ◆ External wainscot: galvanized and painted (29mm) corrugated steel sheet metal in a thickness of 0.4mm (expandable polystyrene)
- ◆ Insulation filling: EPS in a thickness of 60mm
- ◆ Inner wainscot: galvanized and painted (29mm) flat steel sheet metal in a thickness of 0.3mm

**Permitted loading:** 0.50 KN/m<sup>2</sup>

**Coefficient of thermal conductivity:** k=0.41W/m<sup>2</sup>

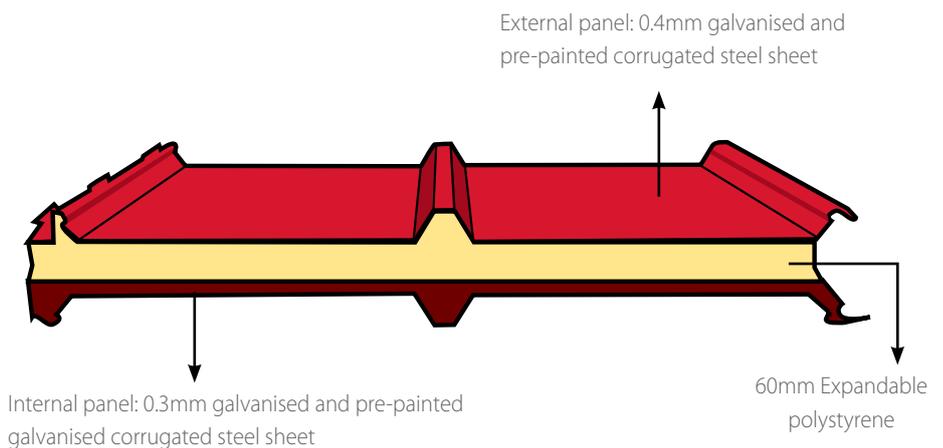
## The Modular Building System

The Allenby Modular Container Units is offered as a fast effective way of providing either temporary or permanent building solutions. The Container Solutions are modeled on a modular stacking and building system. The modular building system is a versatile, cost effective system that can be used for virtually any application. These building units can be assembled in a fraction of the time it takes to build using conventional methods and the product can also be moved to alternate locations should the need arise. Each installation can be individually customized to meet the exact requirement of the client.

The units come in kit form allowing for easy transportation. They can either be delivered in a kit form or as fully assembled units depending on the customer's requirements. Allenby Housing is one of the few companies in the world that manufactures a 9m (30ft) modular house, measuring approximately 22sqm.

### Standard Unit Dimensions (ISO Standard 1161)

- ◆ External length 20' (6m), 30' (9m) and 40' (12m)
- ◆ External width/inner width: 2.435m/2.235m
- ◆ External height/inner height: 2.790m/2.500m



Inside Classroom



Panels



Classroom



Single Unit



Apartment Block

## FLOOR

- external wainscot: flat galvanized steel sheet metal in a thickness of 0.5mm.
- steam blockade: Polystyrene PE foil in a thickness of 80mm
- plywood panel in a thickness of 18mm
- glued PVC floor covering in a thickness of 1.5mm.

**Permitted loading:** 2.50 KN/m<sup>2</sup>

**Coefficient of thermal conductivity:** k=0.41W/m<sup>2</sup>

## CEILING

- external wainscot: flat galvanized and painted steel sheet metal in a thickness of 0.5mm
- steam blockade: PE (Polystyrene) foil in a thickness of 80mm
- inner wainscot: PVC panel in a thickness of 6mm in white colour

**Meteor water outlet:** 4 each of PVC rainwater pipes, diameter 40mm in corner pillars

**Permitted loading:** 1.00 KN/m<sup>2</sup>

**Coefficient of thermal conductivity:** k=0.41W/m<sup>2</sup>

## DOORS

**External doors:** Aluminum, single fold, filled door with opening dimensions of 810X2000mm, furnished with a cylinder lock with 3 keys. Doorframe is made of painted sheet metal, and overall dimensions of 830X2025mm, 40mm thick, made of painted sheet metal as the framework, insulated with polyurethane foam

**WINDOWS (2):** Windows are made of PVC, white color, with dimensions 800X1100mm, glazed with single layer glass in a thickness of 4mms, with "sliding" mechanism (both sliding).

## POSSIBILITIES OF CONTAINER MOUNTING

- on a flat solid surface (asphalt, concrete, well compacted ground)
- on concrete pads (concrete cubes, dimensions 30/30/30cm, 6 pcs/20' container)
- on band foundations (concrete band, 30cm wide, on the container circumference)

## OPTIONAL EXTRAS

- openings for a fork-lift truck in the floor framework, dim. 88x350mm in a distance of 2050mm
- openings for a fork-lift truck in the floor framework, dim 88x250mm in a distance of 1200mm
- deepening in the ceiling framework for a connection plug/switch to be built-in
- final floor covering, in a two-component polyurethane hard coat, 2mm thick
- smoke detector
- protection bar for window
- protection bar for door
- anti panic handle
- electric heater
- mosquito net for window



Standard Unit

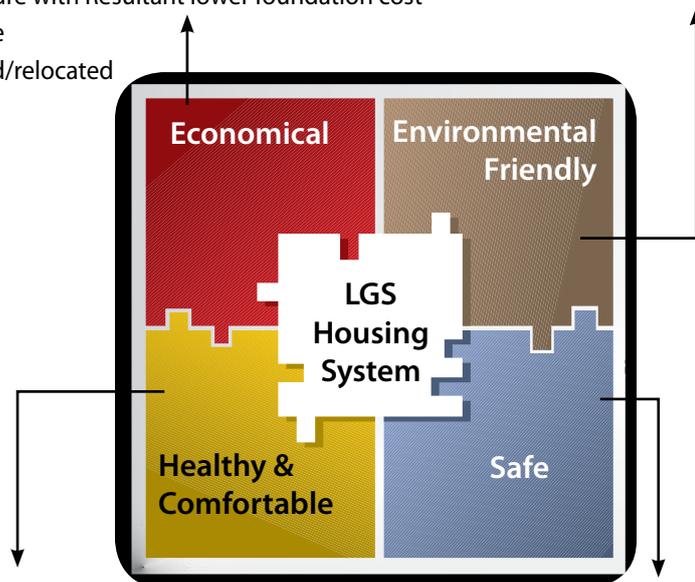


Container Shop

## Product Properties

- Energy saving
- Time-and-labour saving
- Lower foundation cost, light self-weight structure with Resultant lower foundation cost
- Can be moved/relocated

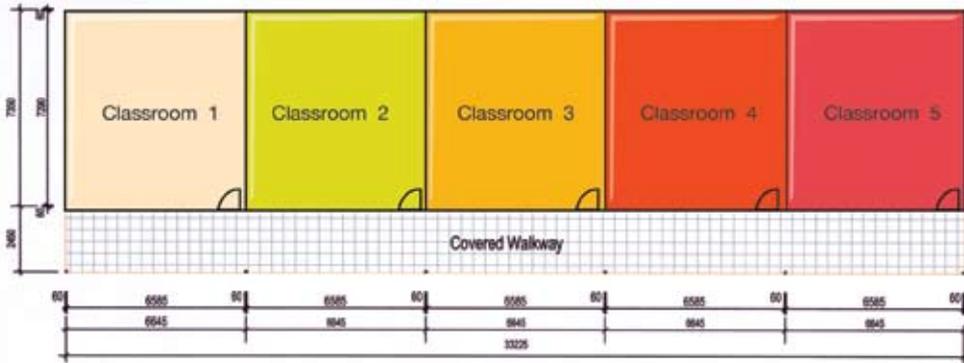
- Recyclable material
- Less waste and noise during construction



- Better air quality
- No worry about termites, moths and mildew
- Comfortable humidity

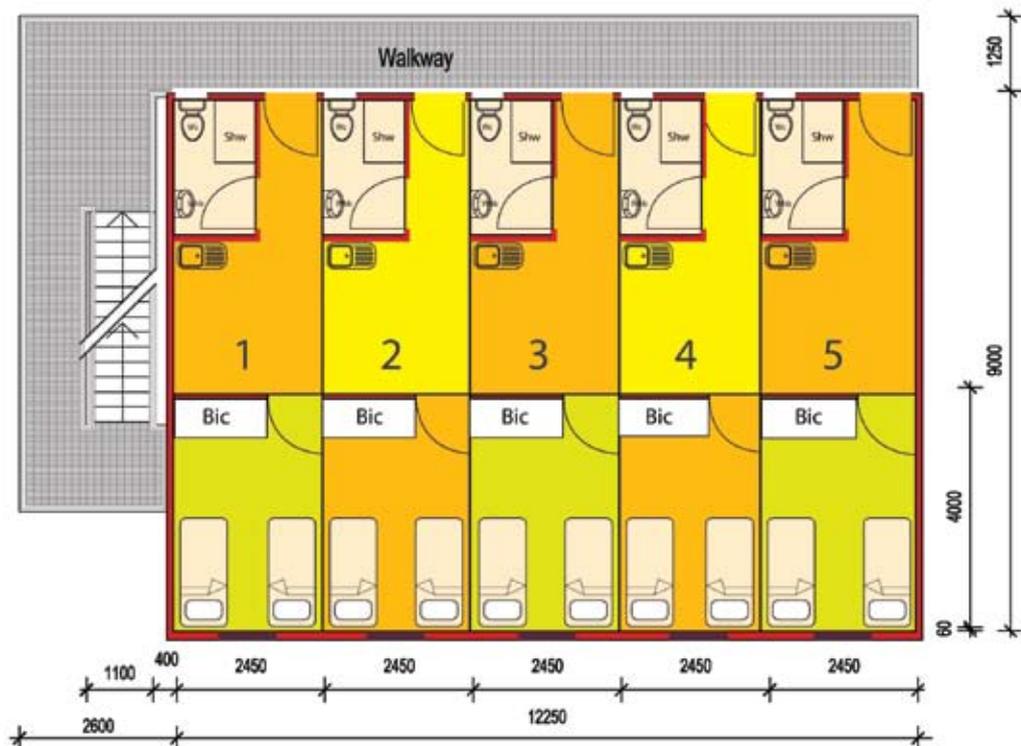
- Professional design and industrialised production
- High physical stability against storm and earthquake

# PRODUCTS



CLASSROOM LAYOUT  
ALLENBY HOUSING  
PLAN & ELEVATIONS

01 SEPTEMBER 2009  
SCALE: 1:200



STUDIO APARTMENTS  
ALLENBY HOUSING  
FLOOR PLAN

01 SEPTEMBER 2009  
SCALE: 1:100

## CONTACT US

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