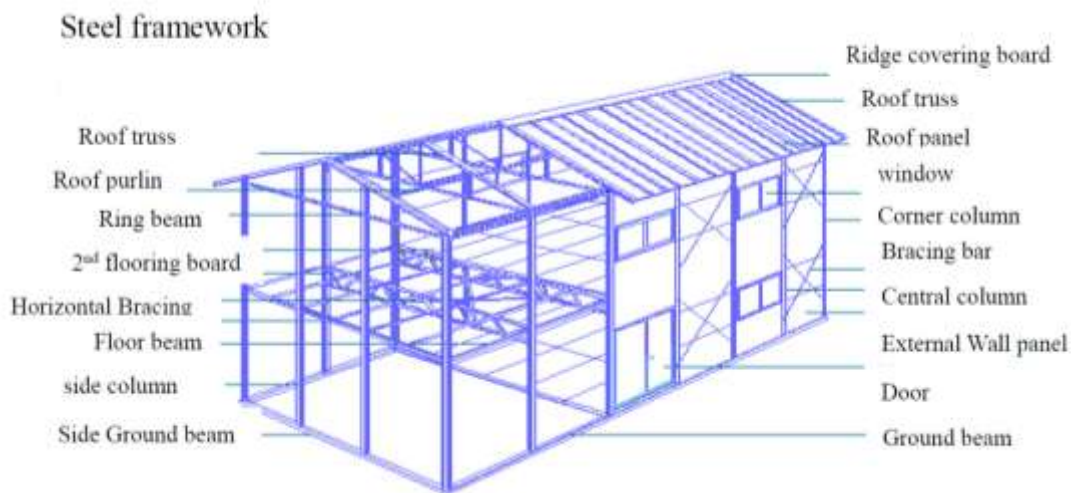


## Casa Loma Prefabricated House

### GENERAL

1. Our prefabricated house is a completely new-concept, eco-friendly, economical prefabricated mobile house.
2. It is built on a lightweight steel skeleton surrounded by protective color-coated steel sandwich panels, can be simply and easily assembled in modules, with the components screwed together, and can be quickly assembled and dismantled.

### SPECIFICATION



### Main materials

- Column: Double C80X40X14X2.5, Q235 Steel  
Roof truss: C80X40X14X2, Q235 Steel  
Beam: C80X40X14X2, Q235 Steel

### WALL:

- Walls are pressed after placing a 50mm thick foam between both faces of GI steel sheet with the thickness of 0.326mm(double surface of wallboard)
- Thickness of color steel sheet: 0.326mm
- Insulation: EPS(12kg/m<sup>3</sup>), PU(14kg/m<sup>3</sup>), Rock wool( 105 kg/m<sup>3</sup>), thickness: 50mm
- Color: white



## **ROOF:**

- Material : 20mm color-coated steel sandwich panel made of corrugated single-sided steel sheets and the middle layer of expanded polyurethane(PU) foam,
- Isolation: polyurethane foam: 20mm
- Thickness of external steel sheet: 0.376mm
- Density: 14kg /m3.
- Awning to the front eaves: min. 1m wide
- Connection at the top of roof: two slope panels connected by fastigium board, width of the board should be 200mm, sealed with block glue.
- Color: blue



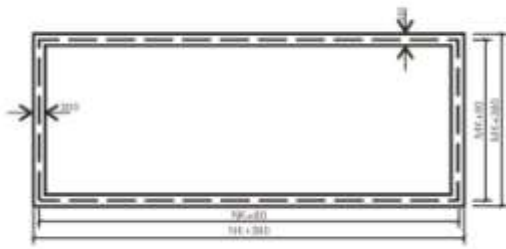
## **DOOR:**

- Material: sandwich panel door, single or double leaf, door blade with aluminum channels on both sides
- Size: 820mm x 2000mm(single-leaf), 1640mm x 2000mm(double-leaf)
- Opening outside
- Color: white

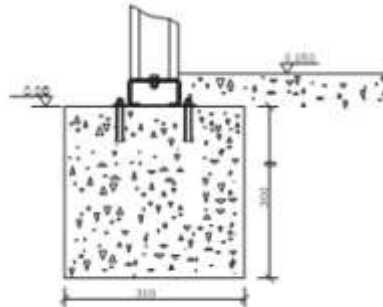
## **WINDOW:**

- Material: aluminum alloy framed window with sliding glass.
- Size: 925mm x 1740mm
- Installation: fixed by crews and bolts, the connection are sealed by silicon sealant
- Glazing: 4mm single glass.
- Color: white

**FOUNDATION:**



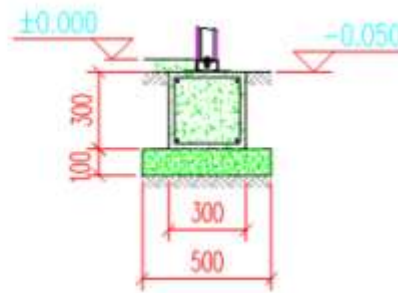
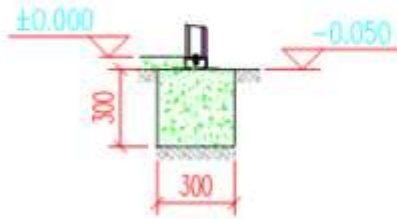
NKmK Foundation Plan



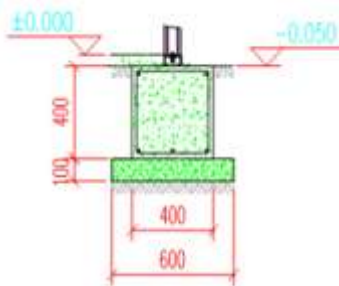
C20 Foundation Section

Foundation 1: solid soil condition  
 Load bearing capacity: no less than 20KN/M<sup>2</sup>;  
 Foundation: C20 concrete

Foundation 2: backfilled soil condition  
 Load bearing capacity: 50KN/M ≤ <120KN/M<sup>2</sup>  
 Foundation: C20 concrete, protection layer: 35mm



Foundation 3: If the soil condition is worse, sizes of foundation can be enlarged



## OPTIONAL INTERIOR FACILITIES:

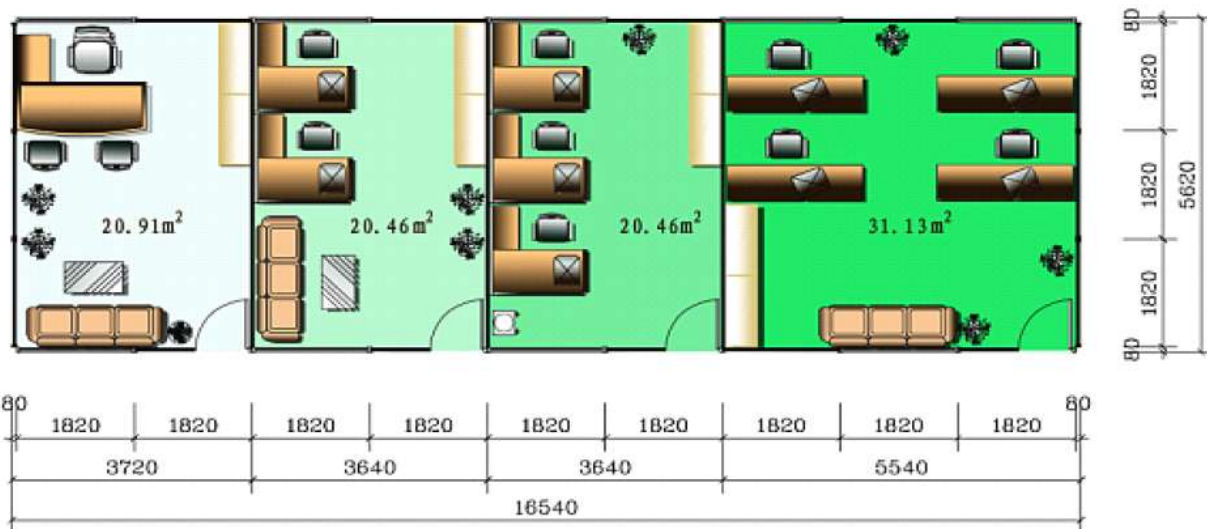
- False ceiling Gypsum board, size in 600X600mm
- Floor Anti-slip ceramic tile, size in 600X600mm  
1.5mm thick PVC floor covering
- Interior plumbing Water UPVC inlet pipes/outlet pipes, valves, floor drains, water-sealed joint, cleaning eye
- Interior electricity Grill tube fluorescent lights, sockets, switches, junction box, distribution box, electrical wiring and PVC wiring ducts, etc.
- Sanitary Facilities: Wash basins with faucets, Showers with sprayer and hose, Sitting/squatting W.C pans.

## TECHNICAL DATA:

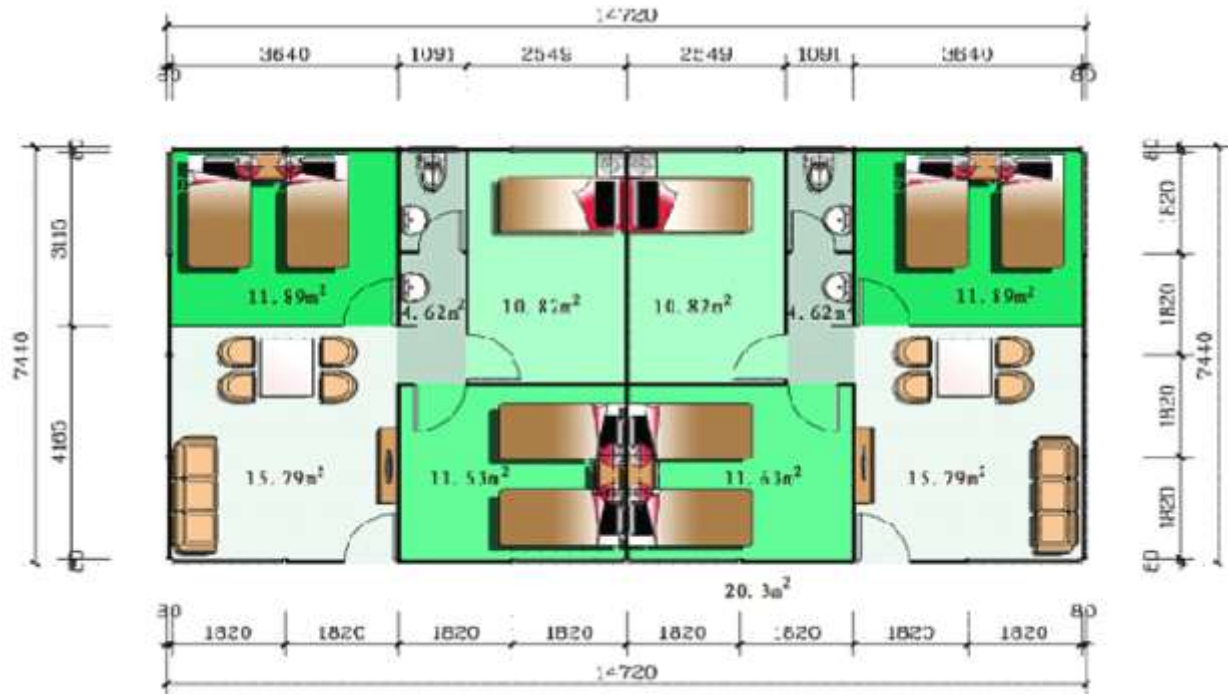
- Live and dead load capacity of roofing: 50-70kg/m<sup>2</sup>
- External and internal wall heat transmission coefficient: 0.35Kcal/m<sup>2</sup>hc
- Main skeleton(Base-plate or Floor plate Load Capacity): 150-200 kg/m<sup>2</sup>
- Wind resistance: Grade 11(wind speed≤111.5km/h)
- Earthquake resistance: Grade 7
- Degree of the slope of roof: 12
- Safety degree of the structure: III
- Number of years for using: over 15 years

## LAYOUT EXAMPLES:

Office (3K\*9K):



## Family Accommodation (4K\*8K)



### FEATURES

- Tightly airproof, heat insulated and preservation, waterproof, resistant to fire and moisture proof
- Easy assembly and disassembly, flexible layout, green and environmental friendly
- Beautiful in design and structure, space-saving for container shipping,
- Material and labour extremely cost-efficient, a skilful installation worker can finish 20 to 30 Square Meter per day.

### APPLICATION

- Refugee camps, construction and mining companies(construction sites in town and remote locations)
- Emergency and disaster sites(hurricanes/floods/earthquake)
- Humanitarian disasters(housing camps)
- Areas with desperate needs for instant and cost-effective shelters
- Medical units
- Office/Administration space

**LOADING:** 300-350M2 / 40'HQ

***INSTALLATION:***

- 4 ~5 workers per shift, which can install 120 square meters per day.
- We can supply the detailed installation drawing and CD to help our clients with the house installation.
- If required, we can also send our technical guy to teach the clients how to install the house. All the costs related with our technical guy will be borned on the clients , such as his visa fee, his round-trip tickets, his living and accommodation cost during his stay in the destination city, and his salary: USD50 per day.
- Installation tools: such as drills, rivet gun, grinding machine, electrical saw, etc.