

# PROPOSAL FOR FLATPACK





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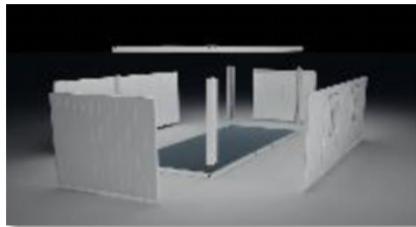
## PRODUCT INTRODUCTION

## PRODUCT INTRODUCTION



Flat pack house is a prefabricated modular unit that offers customers flexibility and multiple design configurations to optimize their temporary modular space. It could expand horizontally and vertically which makes it especially attractive in confined locations. The walls are created by choosing from fourteen interchangeable panels that afford the utmost versatility in building design configuration.

Each 4 units could be packed and shipped as 20'GP, and could be shipped in a 40'HQ, each 6 units which will reduce the shipping cost much.



Components



Shipped as 20GP



Shipped in 40HQ

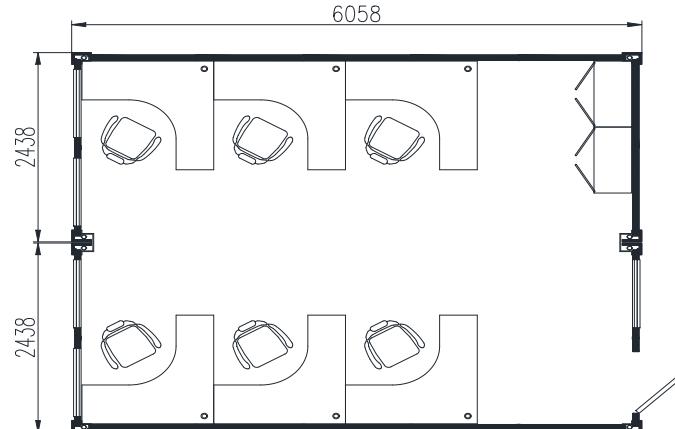
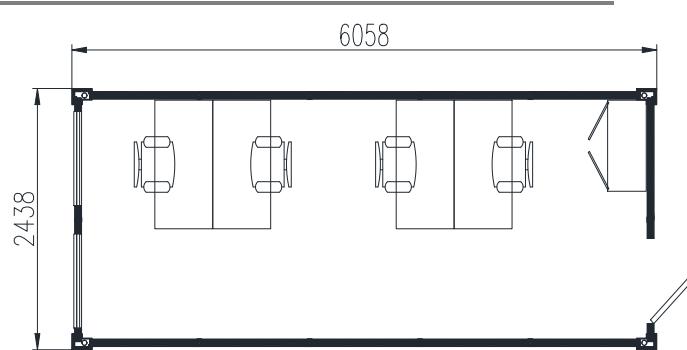


In land transportation  
(8 units Packed)



In land transportation  
(2 units assembled)

## PRODUCT INTRODUCTION – TYPICAL UNITS



Offices

## PRODUCT INTRODUCTION – TYPICAL UNITS

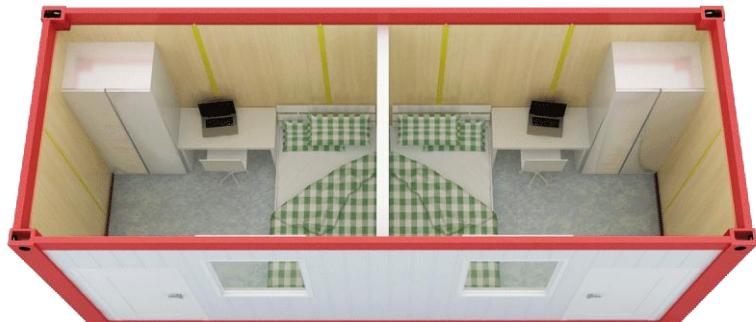
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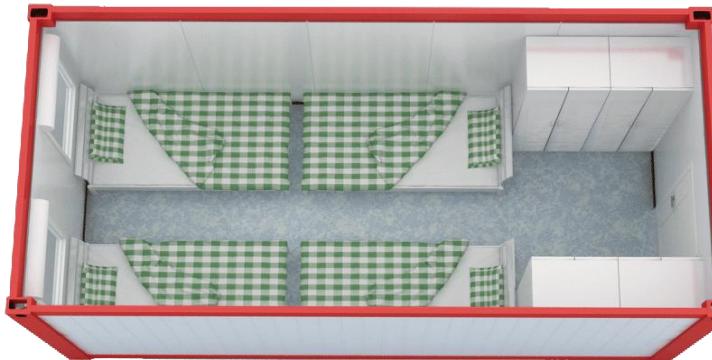
6055(L) x 2435(W)mm – One Person



6055(L) x 2435(W)mm – Two Person



6055(L) x 2435(W)mm – Two Person



6055(L) x 2990(W)mm – Four Person

Accommodations

## PRODUCT INTRODUCTION – TYPICAL UNITS

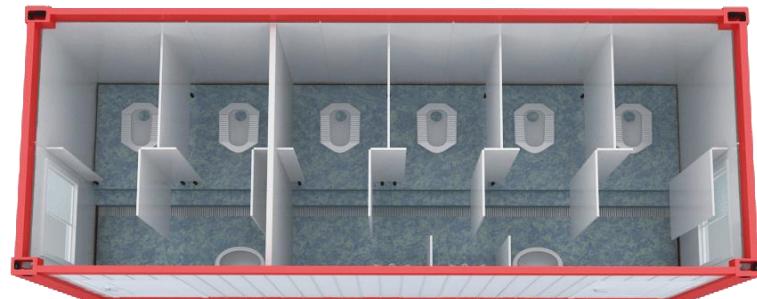
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6055(L) x 2435(W)mm – Toilet - Male



6055(L) x 2435(W)mm – Shower room



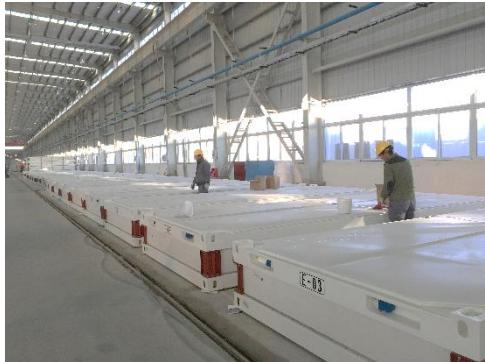
6055(L) x 2435(W)mm – Toilet - Male/Female



6055(L) x 2435(W)mm – Bathroom

Toilet & Bathroom

## PRODUCT INTRODUCTION – TYPICAL DELIVERY PROCEDURE



01 Packing



02 Delivery



05 Finish



04 Accessory Installation



03 Flat pack installation

## PRODUCT INTRODUCTION – TYPICAL ACCESSORY

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Corridor & Awning



Stair



Additional Roof



# Specification For Flat Pack House

NO.	Item	Description	Remark
<b>A. Top frame</b>			
1	Steel structure	3mm Q235 steel beam、1.5mm Q235 top crossbeams、top corner fittings.	
2	Top insulation	40mm glass wool insulation, 14kg/m <sup>3</sup>	
3	Roof panel	0.45mm color coated steel plate, 360° occlusion patented technology	
4	Ceiling	0.4mm color coated steel plate	
<b>B. Bottom Frame</b>			
1	Steel structure	3mm Q235 steel beam、1.8mm Q235 bottom crossbeams , bottom corner fittings	
2	Cement-fibre board	18mm fiber cement board	water proof
3	Floor	2.0mm PVC floor finishing with enviromentally friendly glue, hot melt caulking technology	PVC are also welded together

# Specification For Flat Pack House

NO.	Item	Description	Remark
<b>C. Corner posts</b>			
1	Steel structure	3mm Q235 corner post and reinforcing plate	
2	Rain pipes	Ø40 rain pipe	
<b>D. Wall Panels</b>			
1	Side panels	0.45mm color coated steel plate, PE film adhesion, 75mm thick mineral wool, 80kg/m <sup>3</sup> , Colour: customized	Combustibility: A grade noncombustible
2	Interior partition	0.45mm color coated steel plate, PE film adhesion, 75mm thick mineral wool, 80kg/m <sup>3</sup> , Colour: customized	
<b>E. Doors and Windows</b>			
1	Doors	Single open suit steel doors: ≥W840mm × H2040mm, Fireproof door lock	
2	Windows	W1125mm × H1100mm, UPVC Plastic-Steel sliding Window, 5-9-5mm hollow glass, Including Anti-theft pole&screen window	
<b>F. Electricity</b>			
1	Electricity	Meet 3C standard , including double tube fluorescent lamp, distribution box, socket etc.	

# Specification For Flat Pack House

<b>NO.</b>	<b>Item</b>	<b>Description</b>	<b>Remark</b>
<b>H. Connections</b>			
1	Corner fittings connection	Including accessories	
2	Connection accessories for combined flat packs	Including bottom cover plate, corner post cover plate, fastenings, etc.	
<b>I. Plumbing (Optional)</b>			
1	Inlet/outlet	PVC, PPR for pipes, and steel locking accessories for connection	
2	Floor drain		
3	Toilet underframe elevation		
4	Washing machine waterway		
5	Kitchen sink	Dual-slot, with waterway	

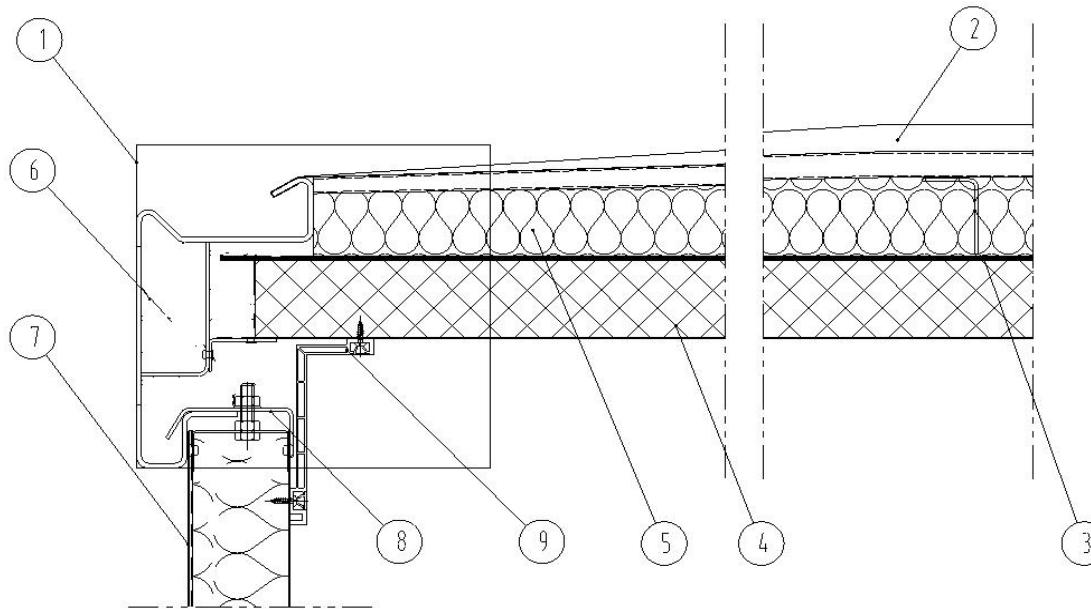
# Specification For Flat Pack House

<b>NO.</b>	<b>Item</b>	<b>Description</b>	<b>Remark</b>
<b>J. Sanitary Fittings (Optional)</b>			
1	Toilet seat	Optional	
2	Squatting pan	Optional	
3	Wash basin	Optional	
4	Shower	Optional	
5	Urinal	Optional	
6	Mop pool	Optional	
7	Toilet partition	Optional	
8	Shower partition	Optional	
9	Urinal partition	Optional	
10	Floor drain	Optional	

## Specification For Flat Pack House

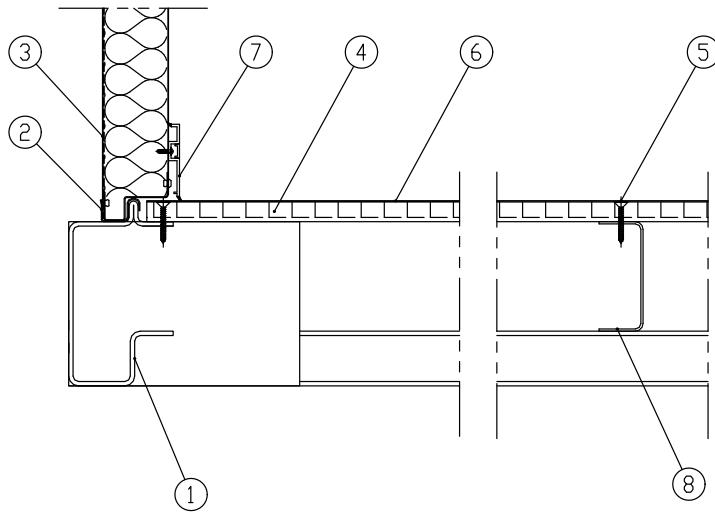
<b>NO.</b>	<b>Item</b>	<b>Description</b>	<b>Remark</b>
<b>K.Others</b>			
1	Interior Decoration Material	Concave lines+skirting lines+fastening	
2	Painting	Galvanized steel frame,water-borne zinc-rich primer and finish, the thickness of dry film is 80um, Color: Customized	
3	Package	Packed in steel frame and loaded into the 40'HC containers	
4	Additional roof	0.326mm colour steel panel	Keeps the UV, snow, hail and enhance the insulation behavior of house

## Top frame



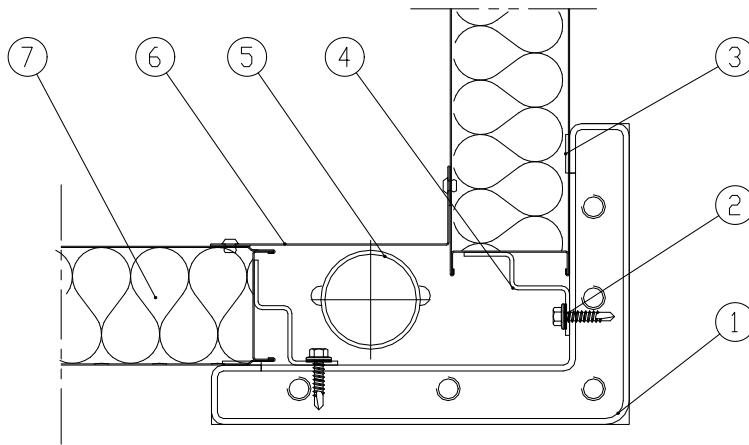
1	Roof frame – top side rail	6	Corner fittings connection
2	0.45 mm galvanized and pre-painted steel sheet	7	Wall panel 75mm rockwool
3	Steel purlin	8	Top anchoring clip for wall panel
4	Ceiling:0.4mm color coated steel plate	9	Upper capping
5	Insulation – 40mm glass wool ,14kg/m <sup>3</sup>		

## Bottom Frame



1	Floor frame – bottom side rail	5	Floor screw
2	slide-rail profile, punched	6	2.0 mm PVC floor
3	Wall panel	7	Baseboard
4	18mm fiber cement board	8	3mm Q235 steel beam、1.8mm Q235 bottom crossbeams

## Corner posts

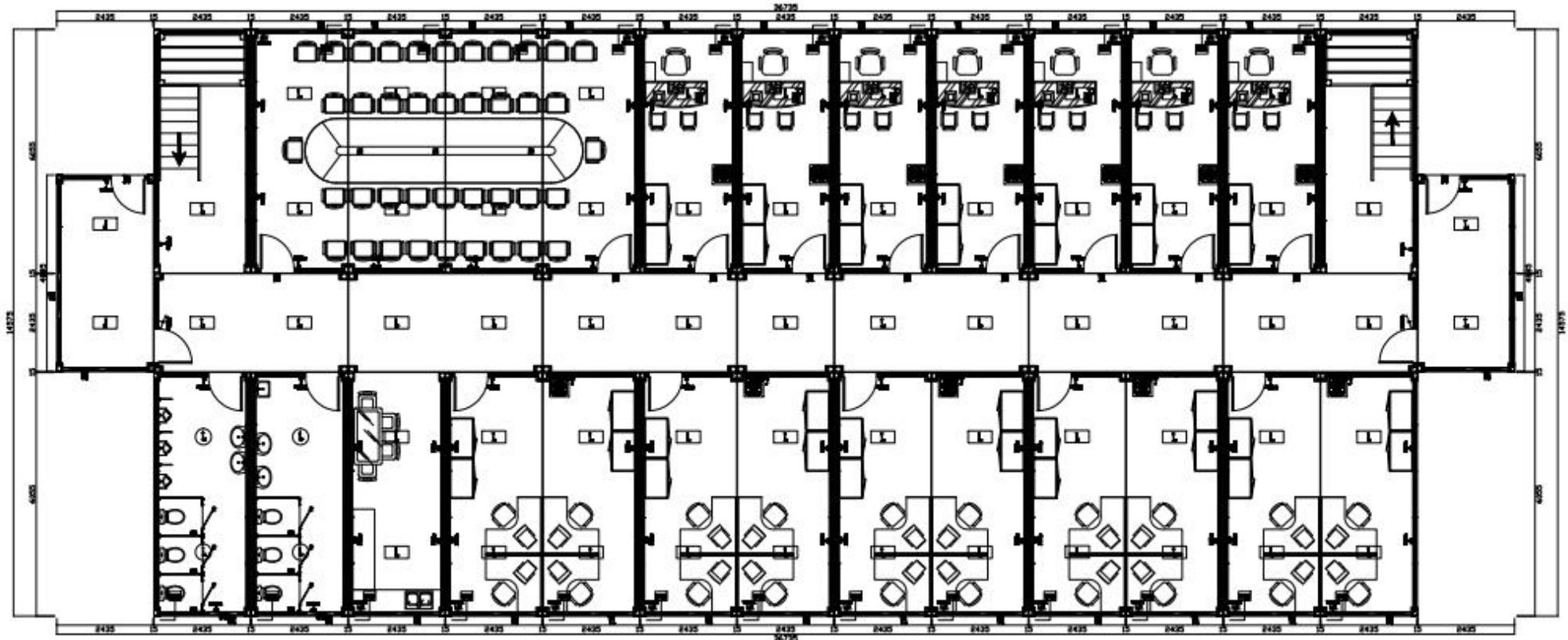


1	Corner post – Steel profile	5	Æ50mm PVC downpipe
2	self-drilling screw	6	Edge capping –Pre-painted steel panel
3	Cellular rubber sealing	7	Wall panel
4	Check block		



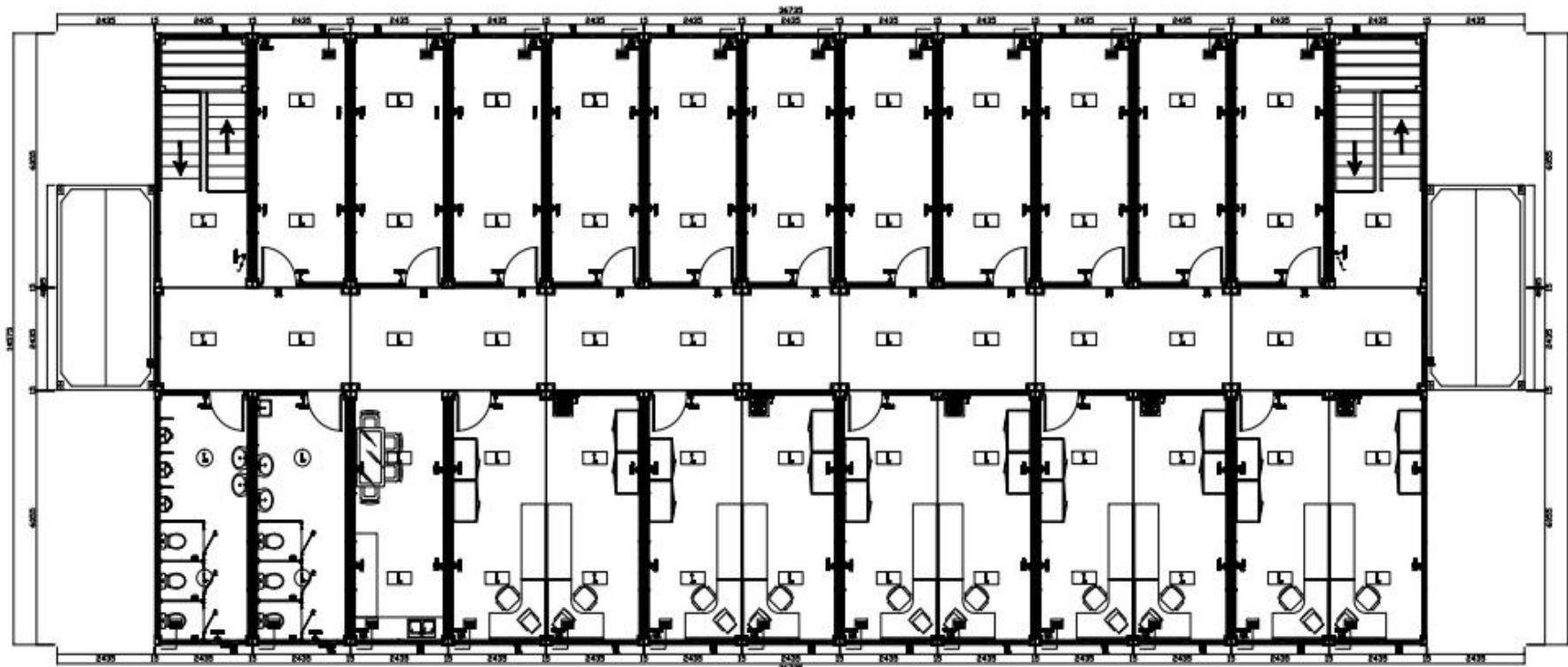
## PROJECT DRAWINGS

# First floor layout plan



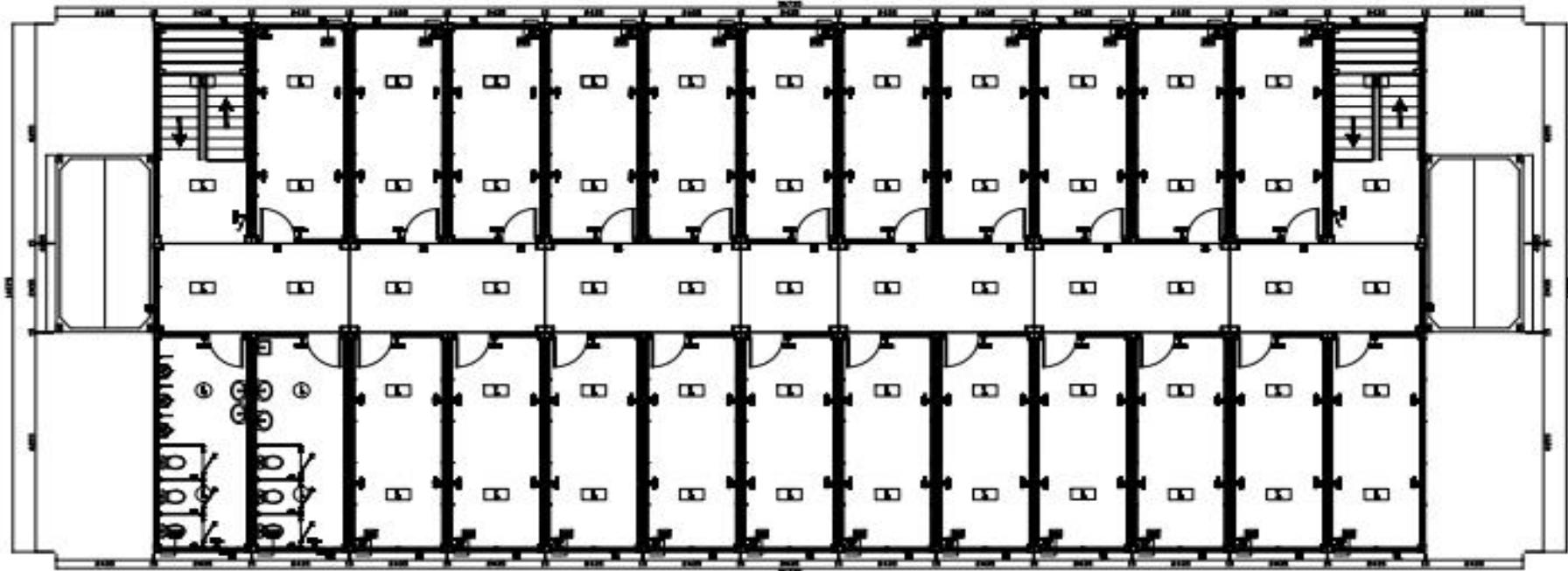
First floor layout plan

# Second floor layout plan



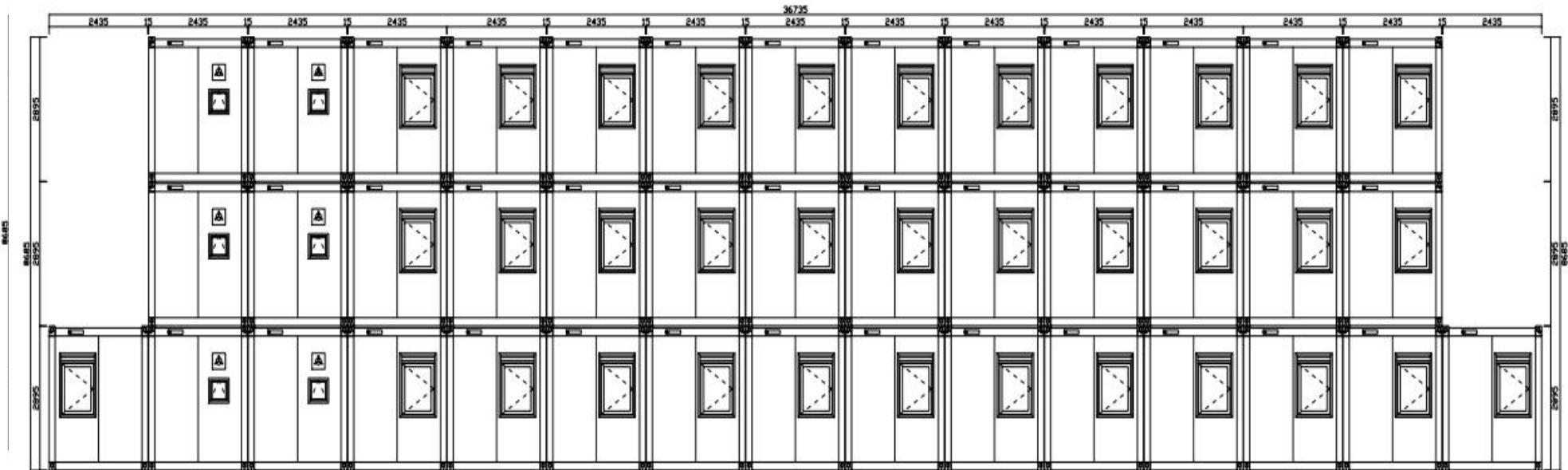
Second floor layout plan

# Third floor layout plan



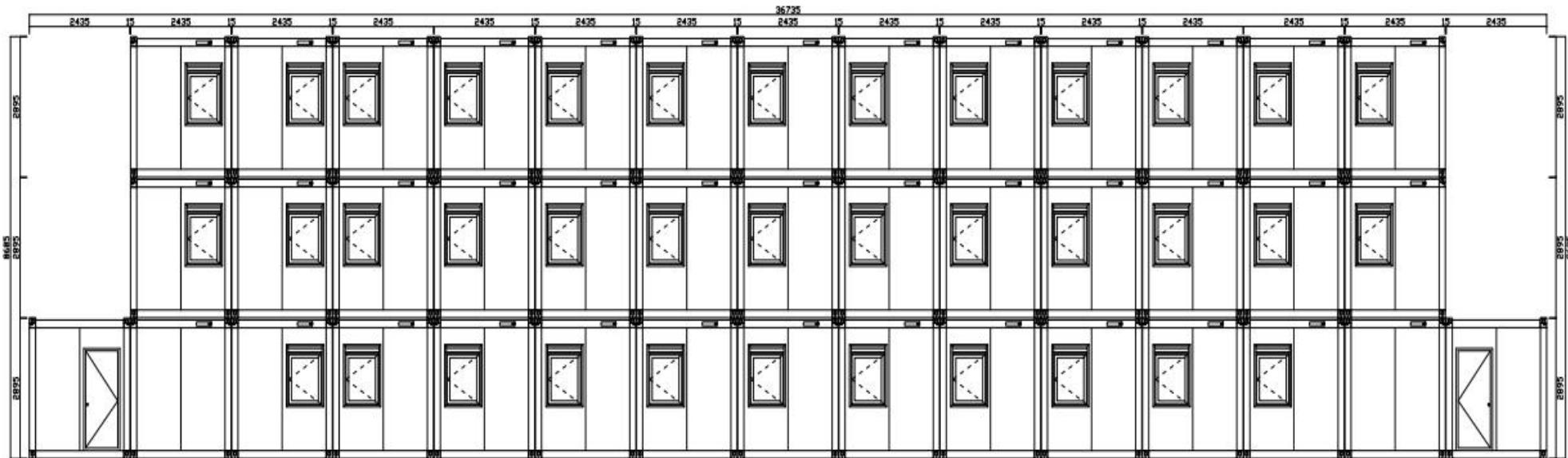
Third floor layout plan

# Front elevation



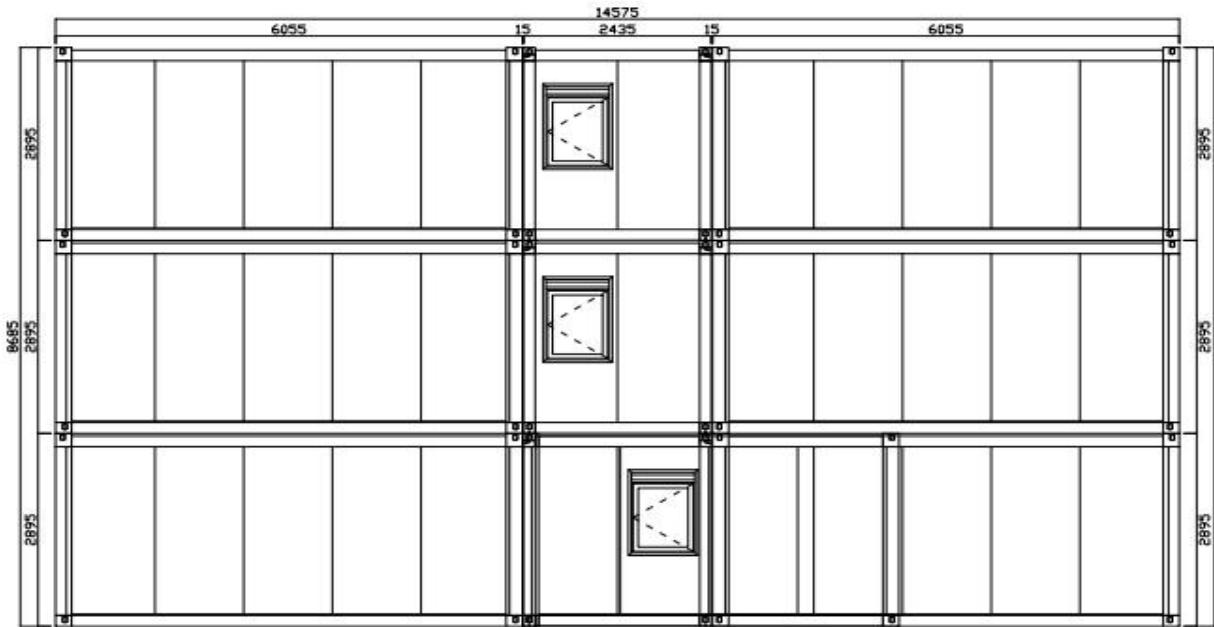
Front elevation

# Rear elevation



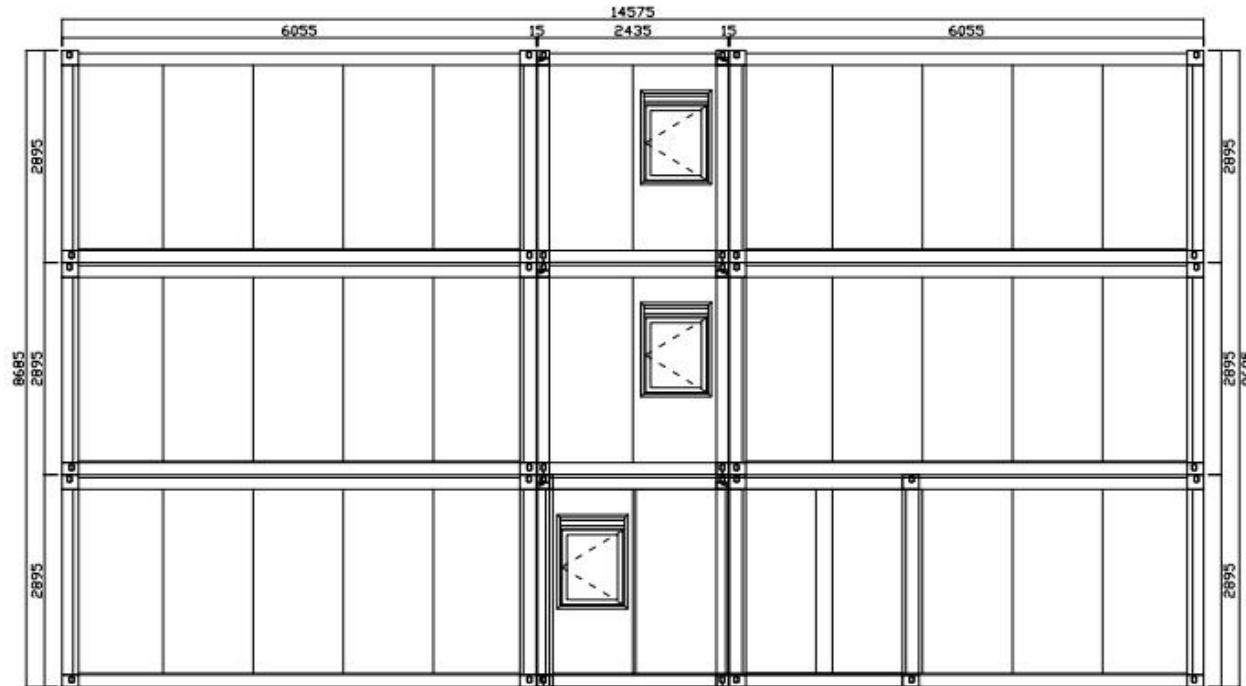
Rear elevation

# Right elevation



Right elevation

# Left elevation



Left elevation

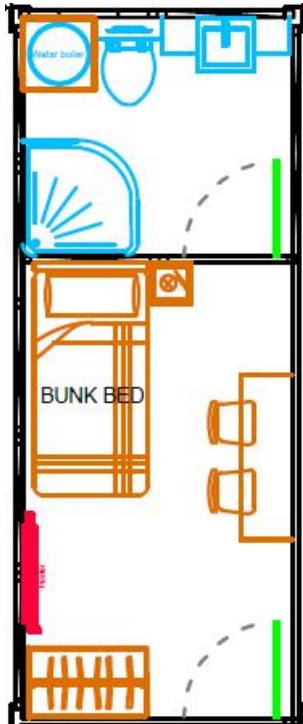
# Additional roof





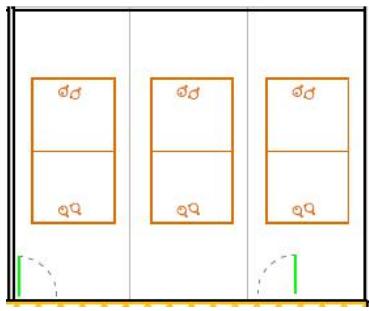
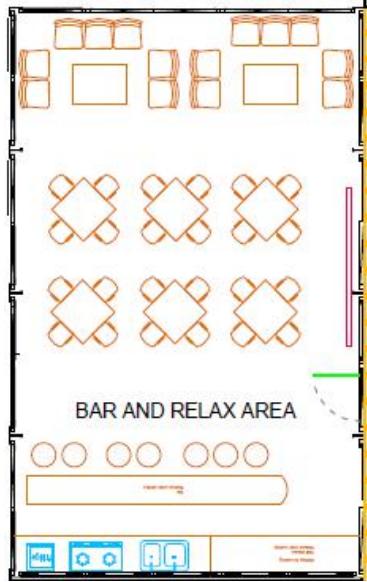
## CAMP SOLUTION CASE

## CAMP SOLUTION – SINGLE ROOM



Accommodation

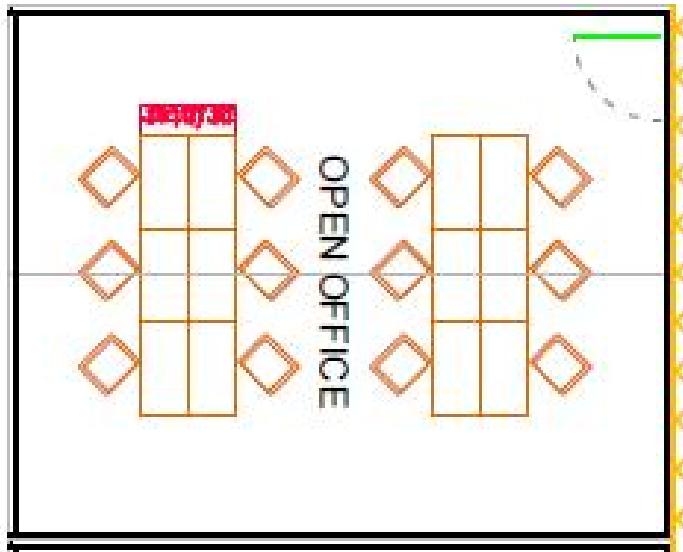
## CAMP SOLUTION – BASECAMP – 48 PEOPLE



**Recreation Room**

## CAMP SOLUTION – BASECAMP – 48 PEOPLE

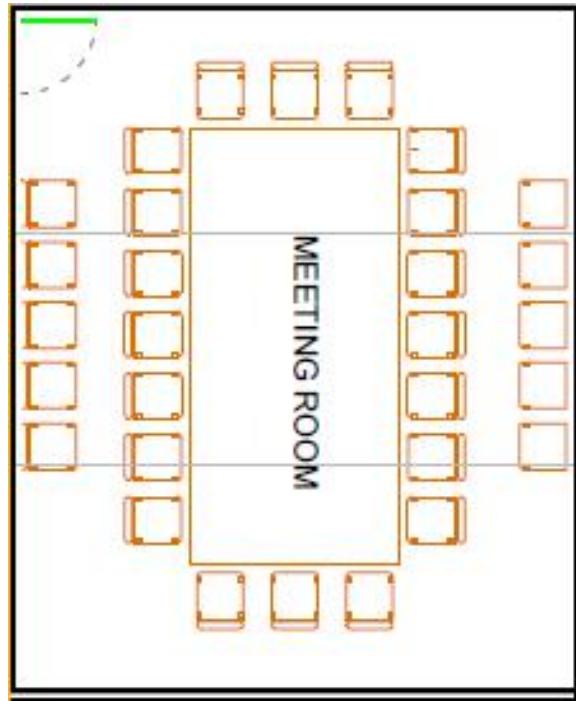
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**Open Office**



## CAMP SOLUTION – BASECAMP– 48 PEOPLE

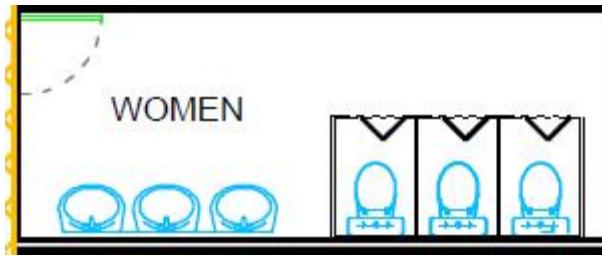
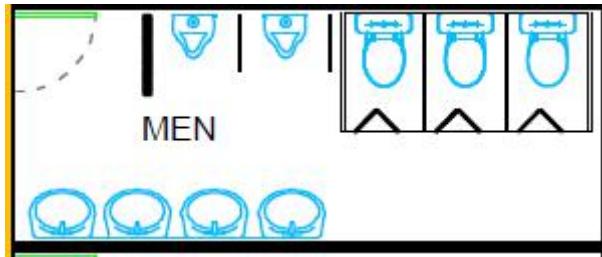


Meeting Room



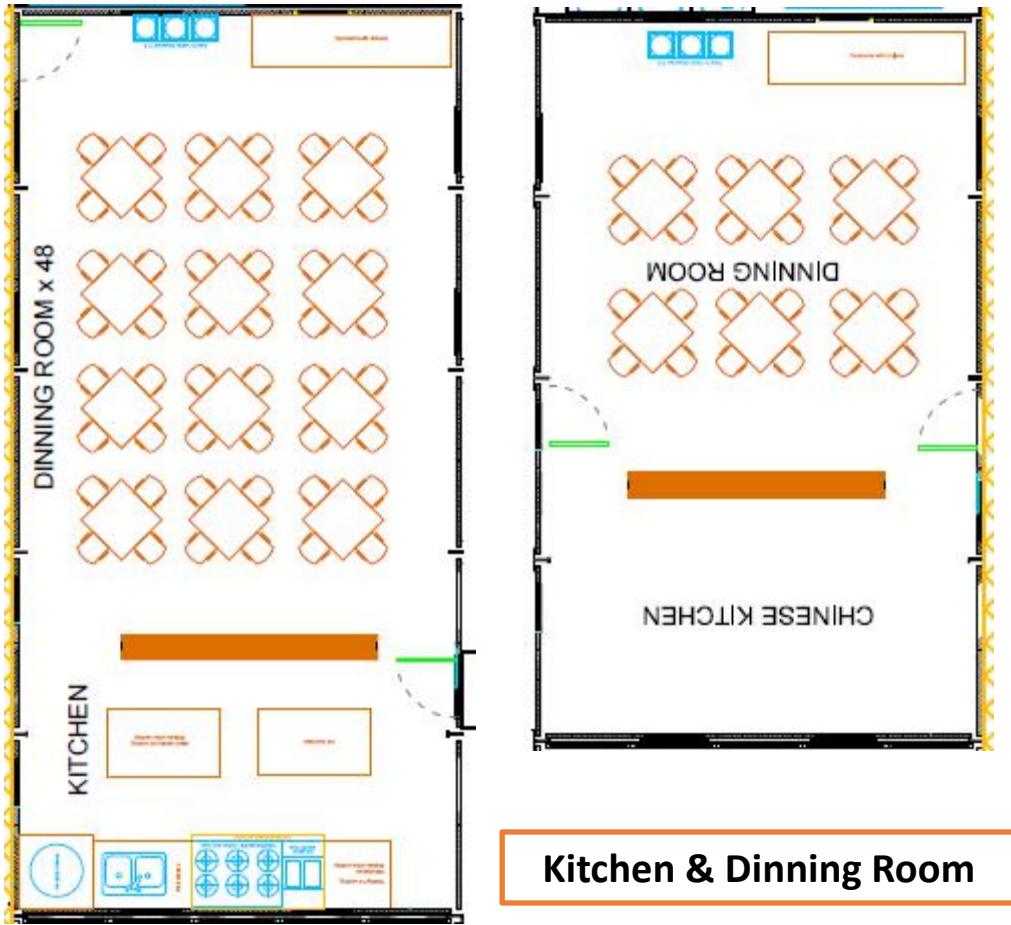
## CAMP SOLUTION – BASECAMP – 48 PEOPLE

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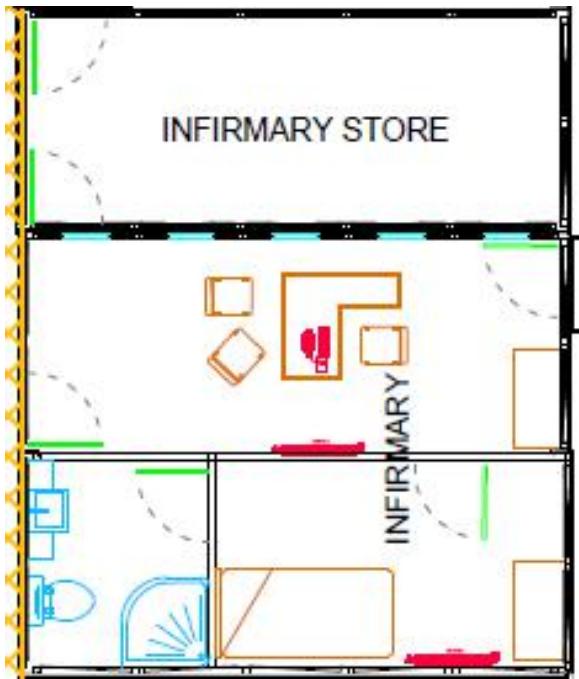


Toilet

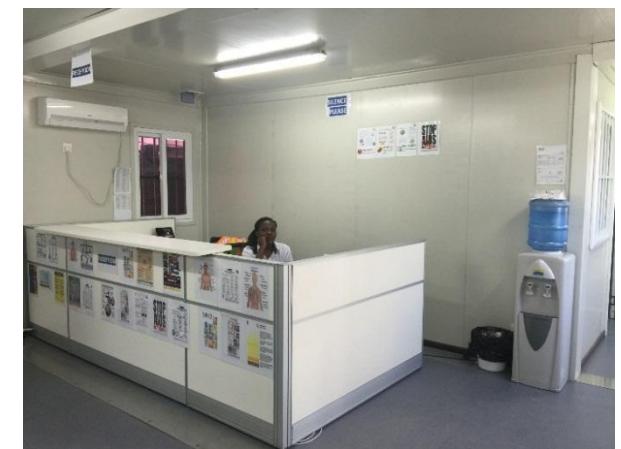
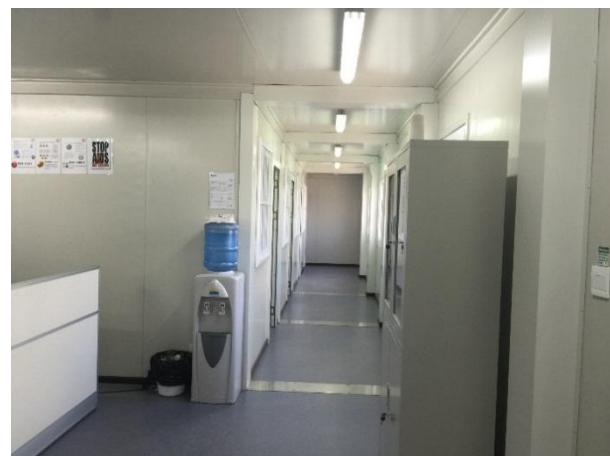
## CAMP SOLUTION – BASECAMP – 48 PEOPLE



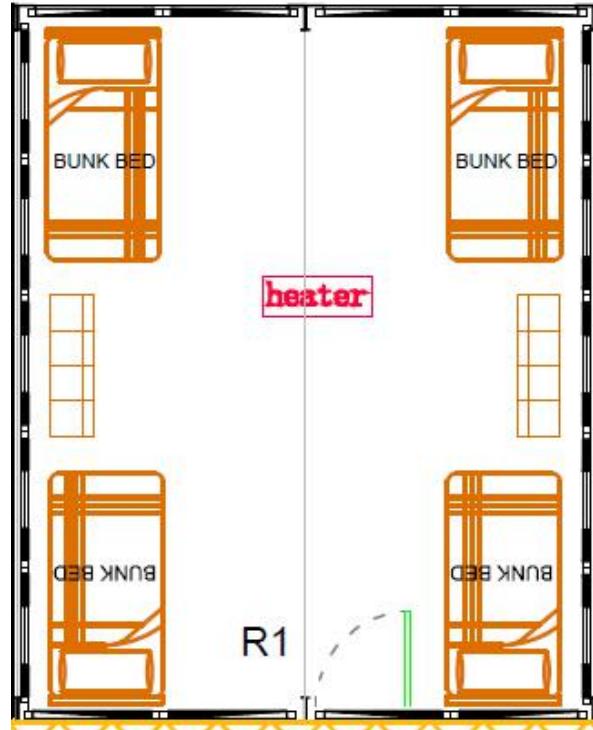
## CAMP SOLUTION – BASECAMP – 48 PEOPLE



Infirmary



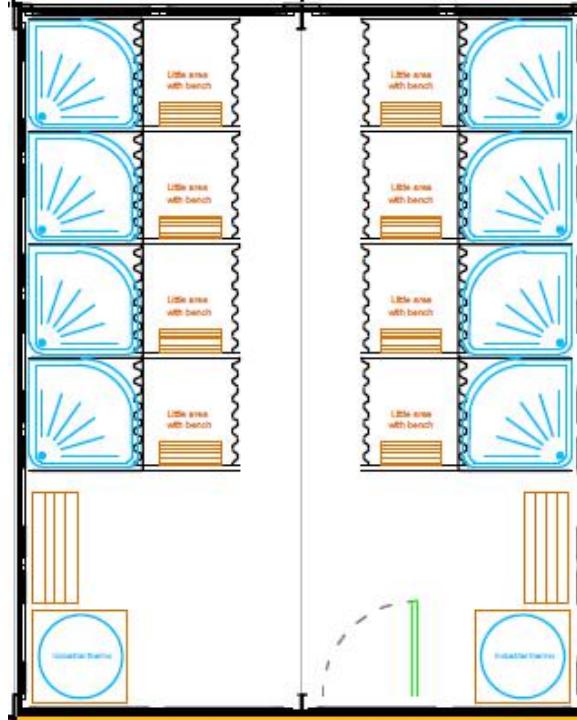
## CAMP SOLUTION – MODULAR CAMP – 96 PEOPLE



Accommodation



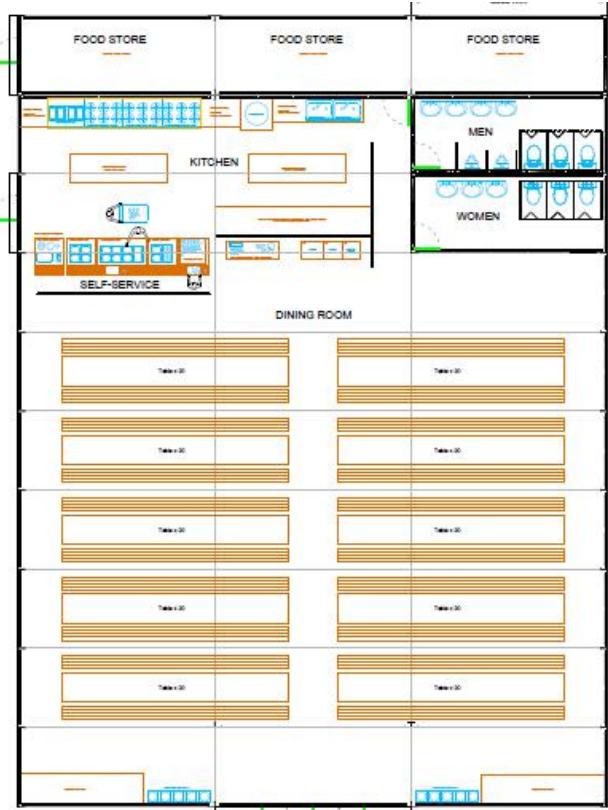
## CAMP SOLUTION – MODULAR CAMP – 96 PEOPLE



Bathroom



## CAMP SOLUTION – MODULAR CAMP - 200 PEOPLE KITCHEN & DINNING ROOM



Kitchen & Dinning



## NOT INCLUDED BUT RECOMMENDED



**Laundry Room**



## PRODUCTION PROCEDURE

## Material Pretreatment

Steel coil



Shot Blasting



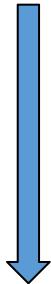
professional shot blasting machine, which makes the painting more durable.

## Material Pretreatment

Cutting &  
Bending &  
Drilling &  
Punching



All pretreatment machine are equipped, which make the production more efficient and make the steel members with good quality.



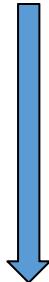
Cold forming



The bottom and top beams are all formed with cold forming machine, which is more efficient and make the house to be structural waterproofed.

## Material Pretreatment

Galvanize &  
Painting



Painting and drying  
makes the steel  
members more  
durable.

Welding



Auto flip welding platform  
makes the welding with  
much better quality and  
more efficient.

## Furnishing

### Roof Furnishing



1. All wires are concealed in the PVC pipe, which make the wire to be replaced easily.
2. The auto flip platform also make the installation more easily and with good quality.

## Furnishing

### Floor Furnishing

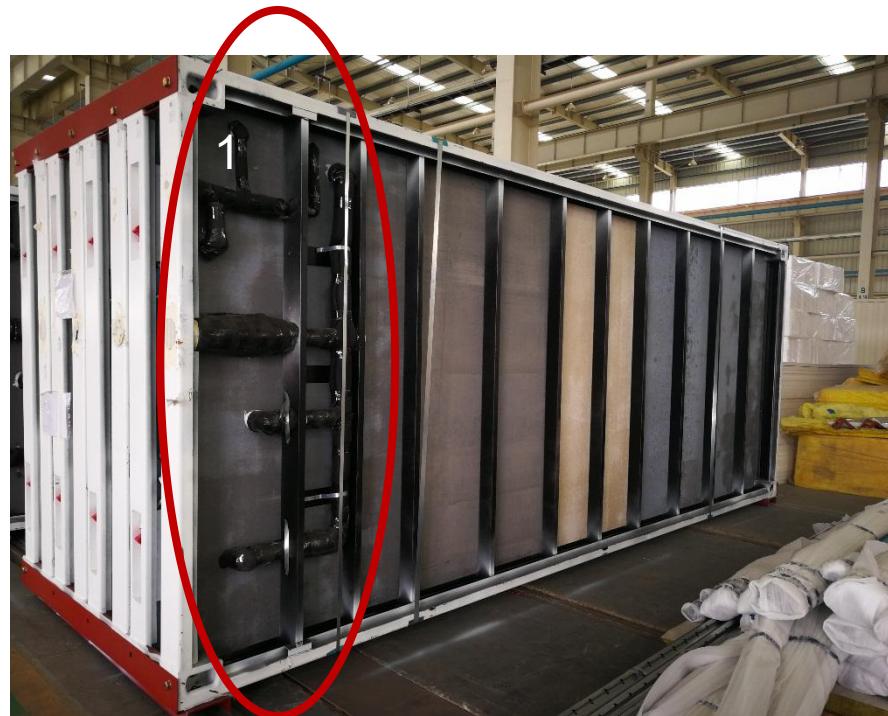
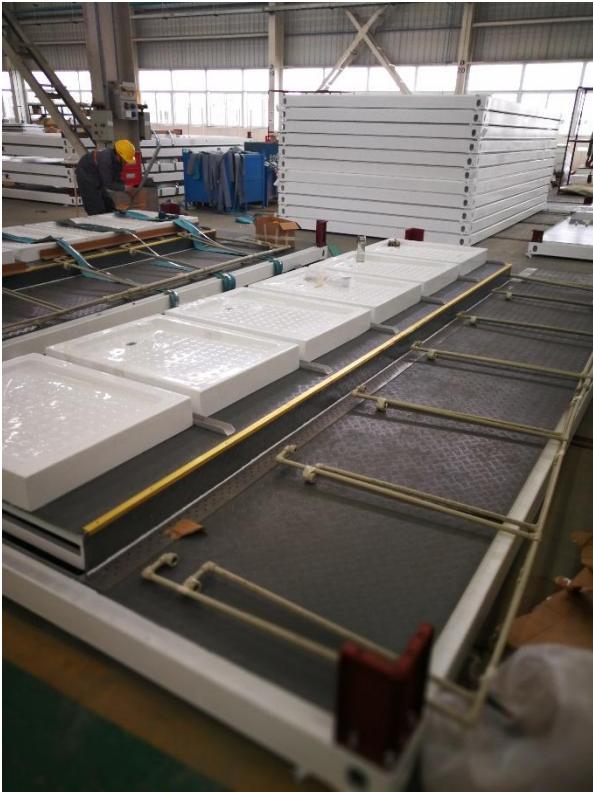


The glue are all environmentally friendly material, and no formaldehyde.  
The PVC floor are also well welded.

## Furnishing

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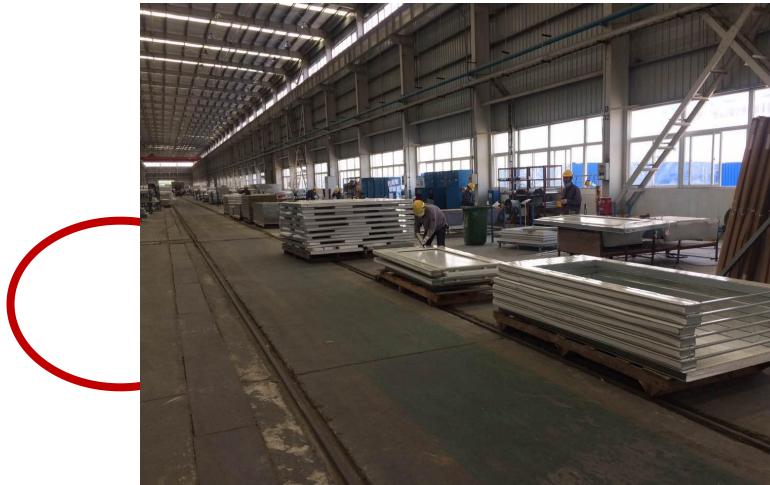
### Plumbing



All the water supply and drain pipes are embedded in the bottom frame.

## Furnishing

Wall, doors  
and windows  
assembling

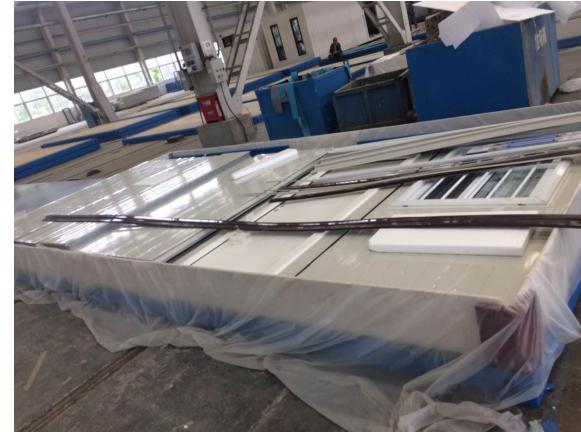


2. Foams are also stick to the wall panel joints, which make the insulation better.
3. Windows and doors are pre-assembled in the panel.
4. Top and bottom of the panels are covered with galvanized steel sheet.

# Packing

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## Packing

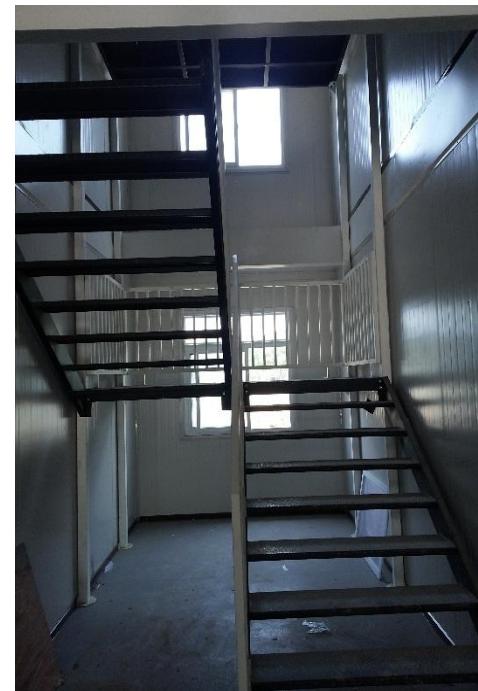


1. Plastic film are placed protect the product from water.

2. Shelf are equipped to protect the panels.  
3. Forklift pocket are equipped with the frame shelf, which makes loading and unloading from the container much easier.



## PROJECT CASE&3D DESIGN SKETCH



Actual project case

