


20' Studio Mini-Home Features



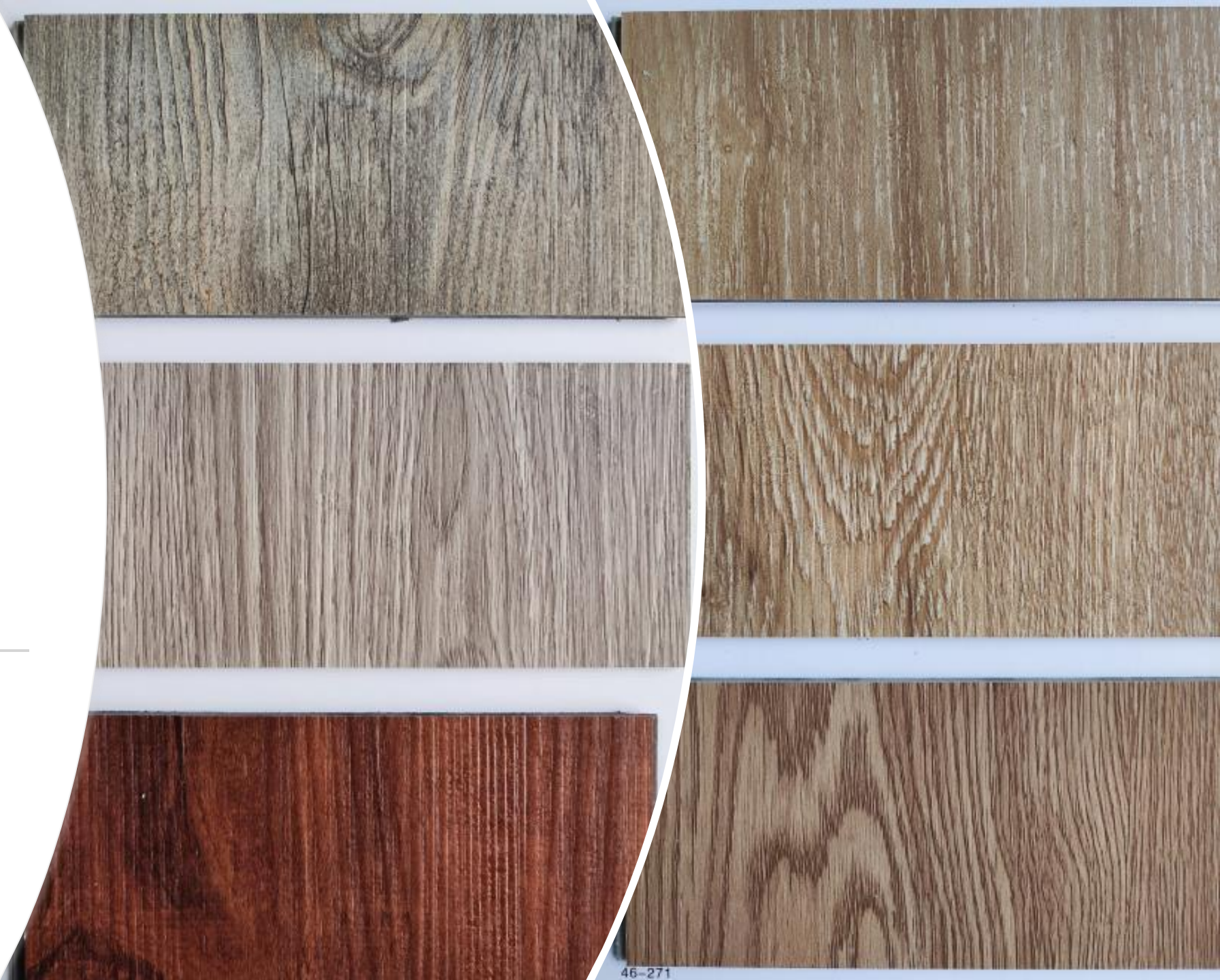
- Steel construction
- Closed-cell foam insulation
 - Ceiling R-value 38
 - Wall R-value 28
- 400 ft² interior
- Waterproof LVT flooring
- Plywood cabinets
- Quartz countertops
- Steel gabled roof option
- Exterior colors/textures options
- 3-day installation
- Designed to withstand hurricanes & earthquakes, wind load, snow load
- Each unit is engineer stamped







Multiple LVT Flooring Options



Architectural Design Description

I. Design basis

This project is designed according to the current national design standards. During construction, in addition to complying with this instruction and the design drawings, relevant national and local specifications or regulations should also be strictly followed.

The main specifications include:

- 《Code for design of steel structures》 GB50017-2003
- 《Load Code for the Design of Building Structures》 GB50009-2012
- 《Code for seismic design of buildings》 GB50011-2010
- 《Technical Code of Cold-formed Thin-wall Steel Structures》 GB50018-2002
- 《Technical Specification for Welding of Steel Structure of Building》 JGJ81-2002
- 《Standard for acceptance of construction quality of steel structures》 GB50205-2011
- 《Standard for construction quality acceptance of building decoration》 GB50210-2001
- 《Roll-profiled steel sheet for building》 GB/T 12755-2008
- 《Double skin metal faced insulating panels for building》 GB/T 23932-2009
- 《Carbon structural steels》 GB/T 700-2006
- 《Cold Formed Steel Sections》 GB/T 6725-2008

II. Project Overview

1. Project name: 6.3*5.9*2.48M Color steel mobile house
2. Construction location:
3. The building is a steel structure.
4. Nature of use of the building: temporary building; Fire resistance rating: Level 4.
5. The building size (mm): L 5900x W 6300x H2480
6. The indoor and outdoor height difference of this building is 0.1m

III Wall panel:

1. 75mm steel/rock cotton sandwich panel, Effective width:950mm.
2. insulation: 75mm, The fire protection rating is A level and non combustible
3. Inner plate: Made of 0.35mm galvanized color steel pure flat plate, with a white gray PE coating and a zinc plating content of $\geq 90\text{g}/\text{m}^2$.

IV COVER

1. frame and parts: main beams and columns: 2.0mm, Q235B, purlins: 40*60*1.5 rectangle tube, Q235B.
2. Roof: 50mm EPS sandwich panel, 0.35mm steel plate, PE paint-coat,
3. EPS Volume Weight 12KG/m³
4. Ceiling: 0.3mm steel plate, type-YX185, color: grey, PE paint-coat,
5. Aviation socket: embedded in the explosion-proof box of the roof main beam.
6. Column: Cold rolled steel sections, thickness: 2mm material: Q235B

V. Floor:

2. indoor floor:

base: Middle (18mm, Cement fiber board) Left and right (Multi story building formwork)
decoration: PVC floor leather, 2.0mm, pattern can be customized.

VI. door and window system

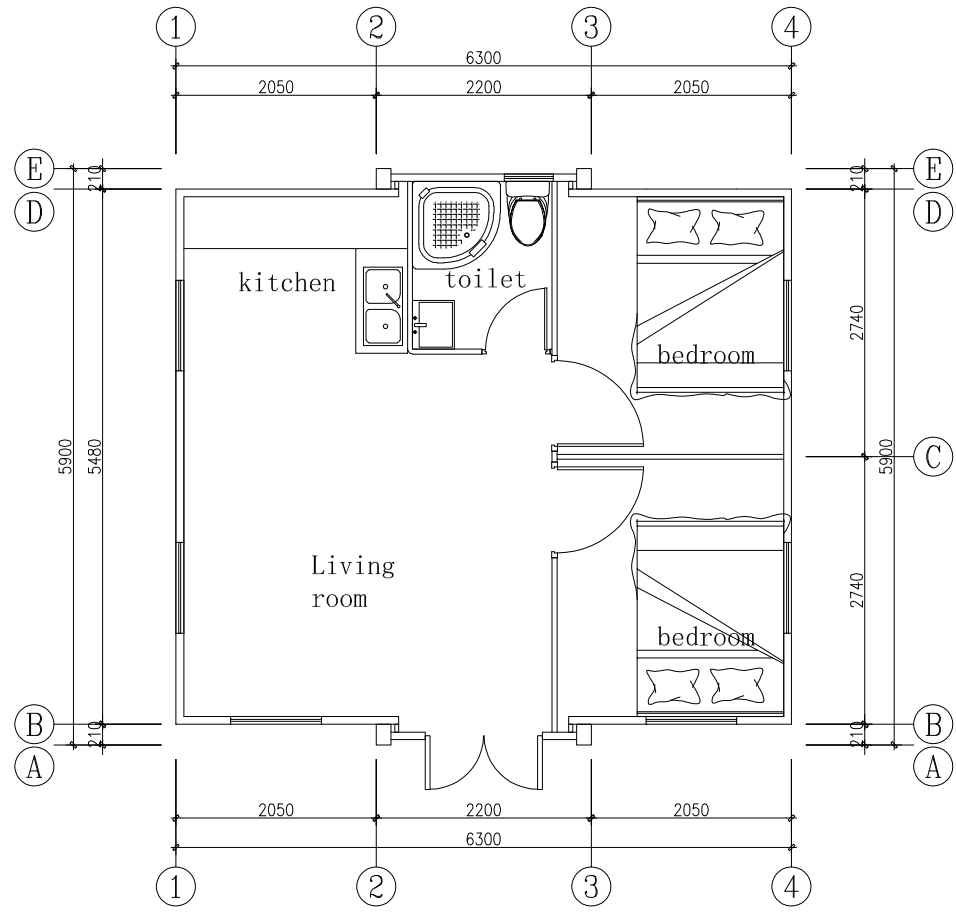
1. bedroom door: steel WxH=970*1970mm.
2. Toilet door: Titanium magnesium alloy glass door, WxH=800*2000
3. Entrance door: bridge-cut aluminum WxH1900*2240
4. bridge-cut aluminum double glass casement window: WxH 930*930
5. toilet window: bridge-cut aluminum aluminum external suspension WxH=500*500

VII. Power System:

1. inlet: Aviation plugs and sockets, 220V, 3P32A
2. wire: Main power: 6, air-conditioning: 4
socket: 2.5 light: 1.5

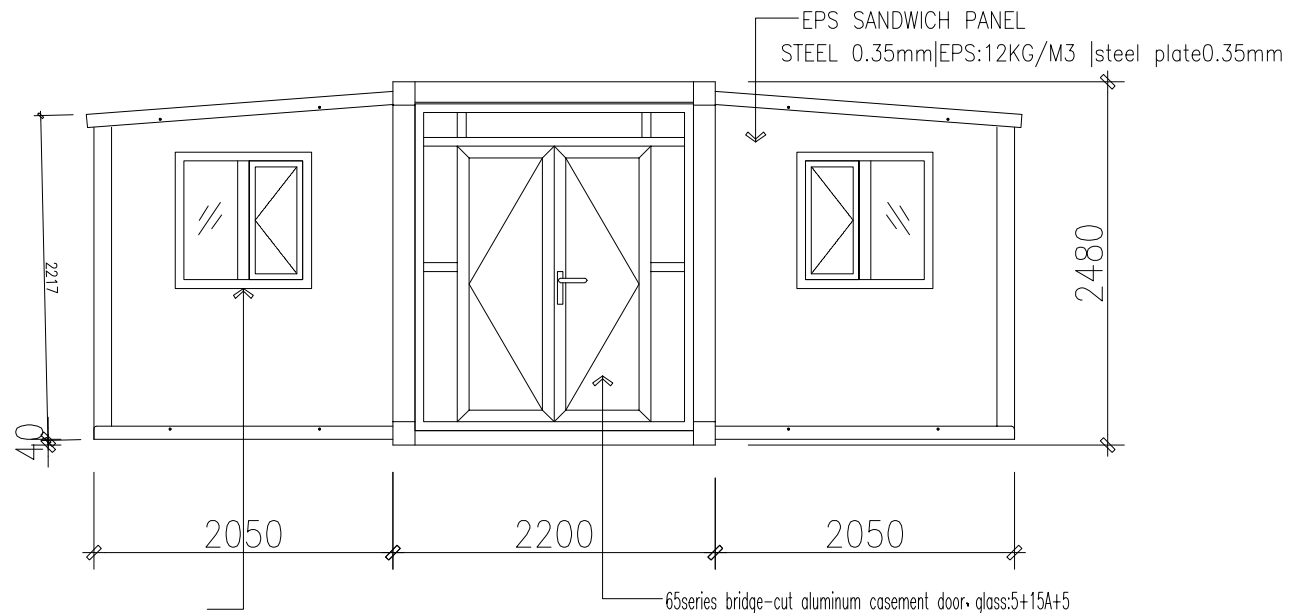
VIII. Toilet:

1. Water supply and drainage insulation measures.
 2. toilet*1, washbasin*1 mirror*1, 900*900 bathroom*1.
- Note: Changes can be made according to customer requirements.



Layout plan

				Builder							
				Project		20 FT Expandable container house					
Design	赵恒岩	countersign	梅红涛	drw name Ground floor plan							
Draw	王文钊	Check	范志强								
technology	杨晓健	Approve	范志刚	DATE	2023.12.10	SCALE	1:50	stage		Draw.No	P-01



65series bridge-cut aluminum casement window, glass:5+15A+5

FRONT

				Builder		20 FT Expandable container house					
				Project							
Design	赵恒岩	countersign	梅红涛	drw name Elevation—Front							
Draw	王文钊	Check	范志强								
technology	杨晓健	Approve	范志刚	DATE	2023	SCALE	1:50	stage		Draw.No	P-05