

Data Sheet

Document No.: [DS-2025-703]

Version: V1.0

Release Date: July 3, 2025

I. Product Overview

1. Product Positioning

This container house is a modular prefabricated building unit adopting a container frame structure, suitable for scenarios such as temporary accommodation, construction site offices, emergency shelters, and commercial stores. It features rapid installation, mobility, and high cost-effectiveness.

2. Core Advantages

- 1) Structural Safety: Steel frame + fiber glass/rock wool sandwich panels, capable of withstanding 9-level wind resistance and 7-degree seismic resistance.
- 2) Energy Conservation & Environmental Protection: Rock wool for fireproof thermal insulation (combustion performance grade B1); fiber glass for sound and thermal insulation.
- 3) Flexible Customization: Supports modular combination of dimensions and functions.
- 4) Rapid Delivery: Single container installation less than 15 mins, supporting integral transportation.

II. Technical Parameters

1. Basic Parameters

External Dimensions of Container: 5900mm*2438mm*2480mm

2. Structure and Materials

NO.	System	Name	Unit	QTY	Specification
1	Steel Structure System	Roof structure	set	1.00	Crossbeam: 140*5580*2.0mm - 2 pieces, 140*2118*2.0mm - 2 pieces; Square tube: 40*60*1.0mm - 9 pieces
		Floor structure	set	1.00	Crossbeam: 140*5580*2.0mm - 2 pieces, 140*2118*2.0mm - 2 pieces; Square tube: 40*60*1.0mm - 9 pieces
		Corner pillar	pcs	4.00	2180*160*160mm, thickness 2.0mm
		Painting	set	1.00	painting thickness 80μm
		Lifting parts	pcs	8.00	160*160*160mm, 4 for roof structure, 4 for floor structure
2	Roof System	Roof covering	set	1.00	0.5mm thickness color steel plate, galvanized, white
		Insulation	m2	14.38	75mm glass wool insulation, density=10kg/m ³
		Ceiling	set	1.00	831 ceiling type, thickness 0.3mm
3	Floor System	PVC flooring	set	1.00	1.6 mm PVC leather
		Floor board	pcs	5.00	18mm thickness fiber cement board

4	Wall System	Wall panel	set	1.00	50mm rockwool sandwich panel with V950 double 0.4mm galvanized plate, density=80kg/m ³ , white grey
		Door	set	1.00	single steel open door, 1970mm*970mm
		Window	set	2.00	PVC window with window screen, single glass, dimension:1200mm*700mm for short side wall, 1200mm*930mm for long side wall
5	Drainage system	Rainspout pipe	pcs	4.00	Dia. 50mm, PVC, Length=2750mm
6	Trim plate	Pillar edge cover	set	1.00	Length=2250mm 4pcs (include edge closing fasteners)
		Wall panel edge cover			0.5mm thick U-shaped groove edge cover
		Skirting			PVC skirting line

3. Environmental and Safety Performance

Wind Load: 0.4KN/m²

Roof Live Load: 0.5KN/m²

Floor Load: 2KN/m²

Thermal Insulation: wall K-value $\leq 0.7 \text{ W}/(\text{m}^2 \cdot \text{K})$, roof K-value $\leq 0.5 \text{ W}/(\text{m}^2 \cdot \text{K})$

III. Drawing Documents

1.Schematic diagram



2.Drawing acquisition method

DWG/PDF format drawings are provided; customized drawings require specific requirements.

IV. Certification System

- 1) CE Certification: Complies with EU CPR regulations, EN 1090 steel structure certification (No.2435-CPR-8600264)
- 2) ISO 9001: Quality Management System Certificate (No.04623Q13548R2M)
- 3) ISO 14001: Environmental Management System Certificate (No.04622E12446R1M)
- 4) ISO 45001: Occupational Health and Safety Management System Certificate (No.04622S12440R0M)

V. Packaging and Transportation

1. Packaging solution

Standard packaging: Naked or wrapped with stretch film, corner anti-collision protectors added.

2. Transportation mode

Full container transport: 40-foot high cube container (for 10 sets)

Multi-modal transport: Supports sea, land, and air combined transport.

3. Installation instructions

Installation cycle: On-site assembly of single container less than 15 mins

Notes: Foundation must be leveled before installation, ground flatness error less than 5 mm.