

Prefab Container Homes - Technical Specification

Canonical URL: <https://www.samanportable.com/product/container-houses/prefab-container-homes>

Steel Structure

COMPONENT	DETAIL
Bottom frame	150×75×5 mm MS C-channel
Bottom stiffeners	100x50x4 mm channels with bolted inter-module connection plates at the mating edge
Floor frame	100x50x3 mm primary with pier-block bearing plates at standard module points
Top frame	80x40x3 mm perimeter with sealed module-joint capping profile
Roof stiffeners	60×40×2.5 mm rafters and 50×50×2.5 mm purlins
Corner posts / walls	60x60x3 mm corners with paired jamb posts at the expansion-side end wall
Lifting / handling	Designed MS lifting hooks or lugs matched to the completed unit weight; handle only by the approved lifting and support-point drawing.
Welding & fabrication	Welded MS fabrication with cleaned joints, safe edges, dimensional inspection and coating touch-up before panel closure and dispatch.

Walls, Roof, Floor & Insulation

COMPONENT	DETAIL
Exterior walls	1.25–1.6 mm corrugated MS sheet
Roof	1.6 mm corrugated MS sheet
Interior walls	8 mm pre-laminated board on module grid, identical panel sizes for repeat production
Ceiling	PVC laminated ceiling panels, washable, module-length runs
Floor base	19 mm marine-grade plywood or 18 mm Bison panel
Floor finish	2 mm homogeneous vinyl sheet, welded seams at module joints
Wall insulation	75 mm mineral wool
Roof insulation	100 mm glass wool or mineral wool
Decorative / external finish	Standard anti-rust enamel exterior finish in an approved colour combination.
Fasteners & sealing	Security grill, insect mesh, guard, louver or protection selected only where the approved use and opening schedule requires it.

Doors, Windows, Electrical & Services

COMPONENT	DETAIL
Main door / service door	flush steel door with standard lockset, one per module
Windows / service opening	uPVC sliding windows in the standard module aperture
Grills / mosquito mesh	Security grill, insect mesh, guard, louver or protection selected only where the approved use and opening schedule requires it.
Electrical wiring	Concealed PVC-insulated copper wiring, typically 1.5 sq.mm lighting, 2.5 sq.mm sockets and 4 sq.mm higher-load or AC circuits, subject to the final load schedule.
Electrical protection	Distribution board with MCB/RCCB protection, earthing and segregation of lighting, socket, wet-area and AC circuits according to the approved electrical drawing.
Electrical fittings	LED lights, computer/data points, UPS provision, multiple 6A/16A sockets, fan points and dedicated AC circuit.
Ventilation / AC	exhaust to kitchen and bathroom zones ducted on the standard service route
Plumbing / sanitary	kitchen and bathroom supply and drainage risers on the sealed standard route, one site connection per module
Layout / configuration	repeatable 1 BHK / 2 BHK module plans, colony-ready, expansion joint on one gable end
Painting / coating	One red-oxide primer coat followed by two compatible anti-rust enamel coats on prepared MS surfaces; project exposure may require an upgraded coating system.
Quality checks	Pre-dispatch checks cover dimensions, member and sheet identification, welds, coating, roof drainage, weather sealing, doors, windows, electrical continuity and functional operation.
Warranty	5-year structural warranty and 1-year finishing warranty as standard

Six approved sizes and prices

SIZE	AREA (SQ FT)	EX-GST	INCL. 18% GST
20x8 ft	160	INR 2,59,520	INR 3,06,234
20x10 ft	200	INR 2,95,000	INR 3,48,100
20x12 ft	240	INR 3,39,840	INR 4,01,011
40x8 ft	320	INR 4,43,520	INR 5,23,354
40x10 ft	400	INR 5,54,400	INR 6,54,192
40x12 ft	480	INR 6,51,360	INR 7,68,605

Warranty

5-year structural warranty and 1-year finishing warranty as standard; finishing warranty extendable to 2 years on request, confirmed at quotation. Typical service life is 20 to 25 years under proper use and maintenance, which is an engineering expectation, not a warranty period.

Supply scope

Published prices are ex-factory for the unit as specified, exclusive of GST. Foundation, site levelling, water and drainage connection and the electrical service point are arranged at your site and are quoted separately.

Delivery and quotation

Delivery in 7 to 21 working days and fixed quotation within 48 hours.

Certifications

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, NSIC SPRS, Udyam, ZED Bronze, DPIIT Startup India

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