

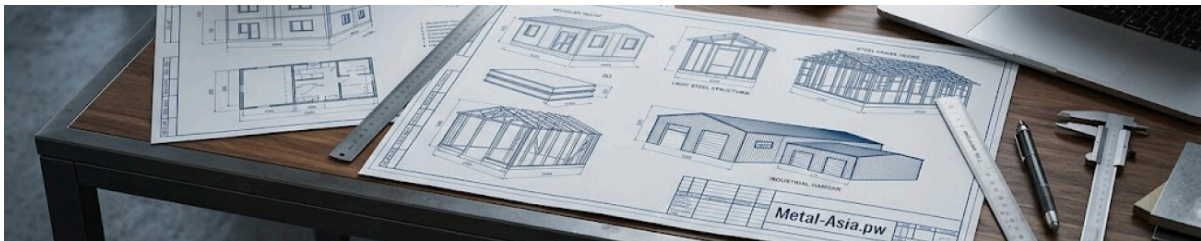
Metal-Asia

Commercial Proposal for Supply

Foldable Rapid-Assembly Container Units HYxf-1875 for Residential and Industrial Applications

Executive Summary

Metal-Asia.pw delivers direct-source procurement of foldable rapid-assembly container units, model HYxf-1875, manufactured in China. These modular structures are engineered for rapid deployment of residential, office, and industrial facilities. The HYxf-1875 platform enables compact logistics in folded configuration while delivering full operational capability upon deployment. Each module accommodates up to 8 occupants. All shipments are executed factory-direct with zero intermediary markups, backed by 15+ years of cross-border supply chain operations since 2009.



Modular container solutions for B2B procurement partners

Why Metal-Asia.pw Delivers Superior Procurement Value

Direct engagement with Chinese manufacturers exposes international buyers to significant operational risks. Metal-Asia.pw eliminates these friction points through structured supply chain compliance and transparent procurement protocols.

Buyer Pain Point	Metal-Asia.pw Solution
Technical specifications lost in translation, causing production defects	Professional Technical Specification drafting for Chinese manufacturers in native technical Mandarin aligned with GB standards
No quality assurance during manufacturing, resulting in defective shipments	Engineering audit for complex orders with NDT, ultrasonic testing, and chemical composition verification to ISO/GB standards
Customs clearance complexity, incorrect HS code classification	Full customs and logistics compliance management with accurate declaration and duty optimization
Inability to participate in public tenders and government contracts	Comprehensive tender documentation preparation for public procurement frameworks and defense sector contracts
Extended lead times for design modifications	Integrated sourcing and procurement with direct engineer-to-engineer factory access

Buyer Pain Point	Metal-Asia.pw Solution
No post-delivery warranty support	Post-warranty support, spare parts supply chain, and 24/7 technical consultation
Payment fraud risk when wiring funds to China	B2B supplier audit with on-site factory verification and video documentation
Engineering system integration and installation challenges	Integrated engineering systems turnkey with certified installation supervision

Our Competitive Advantage Over Direct Chinese Suppliers

Parameter	Direct China Procurement	Metal-Asia.pw
Supplier verification	Self-managed, high fraud exposure	On-site factory audit with photo/video documentation
Quality control	Absent	Engineering audit with NDT, ultrasonic testing, chemical analysis
Technical specification	Online translator output	Professional TS drafting in technical Mandarin
Customs compliance	Self-managed, delay risk	Customs clearance under our compliance with correct HS classification
Public tender eligibility	Not possible	Full documentation package for government procurement
Installation supervision	Not provided	Included in supply contract, buyer zero hassle
Warranty	12 months without support	12 months + post-warranty supply chain support
Lead time	45-60 days with delay risk	15-30 days with delivery guarantee

Technical Specifications — HYxf-1875

No.	Parameter	Value
1	External dimensions (L x W x H)	6000 x 3000 x 2730 mm
2	Internal dimensions (L x W x H)	5840 x 2840 x 2600 mm
3	Folded dimensions (L x W x H)	6000 x 2960 x 410 mm
4	Total weight	1260 kg
5	Usable floor area	16.6 m ²

No.	Parameter	Value
6	Ceiling height	2600 mm
7	Occupancy capacity	Up to 8 persons
8	Frame material	Structural steel Q235B (yield strength 235 MPa, tensile 370-500 MPa)
9	Top and bottom longitudinal beam	Rectangular tube 60 x 80 x 1.7 mm
10	End beam	Profile tube 80 x 80 x 1.7 mm
11	Wall and floor frame	Rectangular tube 40 x 60 x 1.5 mm
12	Corner castings	Steel Q235B 105 x 180 mm, thickness 4 mm (ISO 1161)
13	Folding hinges	Galvanized, thickness 13 mm
14	Frame protective coating	Electrostatic powder coating, white RAL 9016
15	External roofing	Galvanized sheet 0.5 mm
16	Internal ceiling finish	Corrugated sheet V-910, 0.25 mm
17	Wall insulation	Mineral wool 75 mm, density 16-28 kg/m ³
18	Side walls	Sandwich panel 0.25 + fiberglass + 0.25 mm, 75 mm
19	Front and rear walls	Sandwich panel 0.25 + mineral wool + 0.25 mm, 75 mm
20	Floor	Fire-resistant magnesite board 15 mm, Class A1
21	Entry door	Steel security door 970 x 1970 mm, warm white
22	Window	PVC double-glazed 920 x 920 mm, 4 mm glass
23	Electrical supply	220 V, 50 Hz, inlet cable 4 mm ² , breaker 20 A
24	Sockets	Five-pole with switch, ten-pole, AC unit socket
25	Lighting	LED ceiling fixture
26	Electrical certification	CE
27	Warranty	12 months
28	Manufacturing lead time	15-30 working days

Commercial Terms

Important: Prices are valid at the time of this commercial proposal and are indicative. Final pricing is calculated individually upon receipt of detailed buyer requirements, including order volume, configuration specifications, delivery terms, and current market conditions.

No.	Item	Quantity	Unit	Unit Price, CNY	Total, CNY	Notes
1	Foldable container HYxf-1875 (standard configuration)	16	pcs	3016	48256	8-person capacity, CE electrical
2	External staircase, galvanized steel	2	pcs	1820	3640	For two-level installation
3	Walkway planks, canopy, railing	8	sets	832	6656	For inter-module passages
TOTAL					58552	Price excludes VAT and freight

Delivery and Logistics Terms

Parameter	Value
Incoterms	EXW / FOB / CIP (as agreed)
Packaging	Factory wooden crating, PE film, strapping bands
Transport	Flatbed truck 17.5 m (up to 4 units folded) / 40'HQ container
Loading	Crane via ISO 1161 corner castings or forklift
Storage period	Up to 12 months in factory packaging
Service life	Minimum 15 years under standard operating conditions

Packing List

No.	Cargo Description	Number of Packages	Packaging Type	Net Weight, kg	Gross Weight, kg	Dimensions (L x W x H), mm	Marking
1	Foldable container HYxf-1875	16	Wooden crate, PE film	1260	1380	6000 x 2960 x 410	Fragile, This Way Up, No.1-16
2	External staircase	2	Wooden box	85	95	2000 x 1000 x 300	Fragile, No.17-18
3	Walkway planks, canopy, railing	8	Bundle, PE film	45	52	3000 x 1200 x 200	No.19-26

No.	Cargo Description	Number of Packages	Packaging Type	Net Weight, kg	Gross Weight, kg	Dimensions (L x W x H), mm	Marking
	TOTAL	26 packages		21010	23142		

Shipper: Metal-Asia.pw, China **Consignee:** As per buyer instruction **Contract No.:** As agreed **Date of issue:** 02.06.2026

HS Codes (Harmonized System)

Description	HS Code
Prefabricated modular buildings of metal	9406 10 000 0
Metal frame structures	7308 90 800 0
Electrical equipment (in set)	8537 10 990 0
Metal doors	7308 30 000 0
PVC windows	3925 20 000 0

Foundation Systems for Modular Buildings

Modular structures can be installed on various foundation types. Selection depends on soil conditions, climate parameters, and intended service life.

Screw Piles (Recommended)

Screw piles are the optimal foundation solution for modular units. The system consists of galvanized steel shafts with helical plates for ground penetration. Length is determined by frost line depth or bedrock location.

Parameter	Value
Pile type	SVS 89 (single-story), SVS 108 (multi-story)
Shaft diameter	89-108 mm
Wall thickness	3.5-4 mm
Load capacity	2.5-3 tonnes per pile
Length	1500-3000 mm (calculated per frost depth)
Installation spacing	2.0-2.5 m
Installation time	1-2 days
Service life	Up to 80-100 years

Screw pile advantages:

- Cost-effective: 40-50% below concrete foundation pricing
- Rapid installation: maximum 2-3 days
- All-terrain capability: including wetlands and slopes
- Corrosion-resistant with hot-dip galvanization
- No heavy machinery required
- Year-round construction capability
- Reusable upon dismantling

Block Foundation (Concrete Blocks)

Parameter	Value
Material	Concrete blocks M200-M300
Block size	400 x 200 x 200 mm
Quantity per 6x3 m module	6-8 blocks at corners and center
Preparation	Leveling, sand base 100-150 mm
Installation time	1 day

Block foundation advantages:

- Minimum cost
- Maximum installation speed
- Demountable and relocatable
- No specialized equipment required

Slab Foundation

Parameter	Value
Type	Monolithic reinforced concrete slab
Thickness	200-300 mm
Reinforcement	Mesh AIII 12-16 mm
Preparation	Sand base 200 mm, waterproofing
Construction time	7-14 days

Application: Permanent installations, multi-story complexes, seismic zones.

Technical Specification Requirements

For accurate cost and lead time calculation, the buyer shall provide the following technical specification data:

No.	Section	Content
1	General data	Project purpose, module quantity, project timeline

No.	Section	Content
2	Climate conditions	Installation region, min/max temperature, wind load, snow load
3	Soil conditions	Soil type, frost depth, groundwater level
4	Layout	Room count, room purpose, floor area
5	Configuration	Insulator type and thickness, window/door type, wall and floor finish
6	Engineering systems	Electrical supply (voltage, power), heating, water supply, sewage, ventilation
7	Electrical equipment	Socket and switch standard, socket quantity, lighting
8	Plumbing	Bathroom (type, configuration), kitchen (type, equipment)
9	Additional options	Terrace, canopy, stairs, railings, air conditioning
10	Packaging and transport	Delivery method, Incoterms, marking requirements
11	Documentation	Required certificates, passports, manuals
12	Special requirements	Fire protection, vandal resistance, sound insulation

Application Sectors for Modular Buildings

Tourism and Hospitality

Modular structures are extensively deployed in the tourism industry for rapid-accommodation facilities. According to industry data, 34% of travelers seek regional destinations, while acute shortages of quality room inventory in popular locations drive strong demand for modular solutions.

Facility Type	Description	Advantages
Glamping sites	Comfortable eco-tourism cabins	Rapid launch, mobility, minimal environmental impact
Recreation centers	Modular family vacation units	Scalability, seasonal mobility, low operating cost
Mountain shelters	Insulated modules for alpine use	Transportability to remote areas, year-round operation
Roadside motels	Rapid-assembly highway hotels	Minimal construction time, relocation capability
Campgrounds	Temporary tourist accommodation	No permanent construction permit required

Government and Public Sector

Facility Type	Description	Application
Administrative offices	Modular government facilities	Service centers, tax offices, passport services
Educational institutions	School classrooms and kindergartens	Temporary classrooms during renovation, school expansion
Medical posts	Field aid stations and clinics	Remote settlements, field hospitals
Security posts	Guard booths and checkpoints	Border points, industrial facilities
Fire stations	Modular depots and barracks	Rapid deployment in new districts

Worker Accommodation and Industrial Camps

Worker accommodation camps are integral to efficient operations for enterprises utilizing rotational workforce methods. Modern full-service camps are constructed in all geographic and climatic zones, including seismic regions.

Facility Type	Description	Features
Residential modules	Worker bunkhouses	2-8 person capacity, heating, ventilation
Dormitories	Multi-story modular complexes	Up to 3 floors, 30-100+ person capacity
Dining facilities	Canteens for rotational workers	Fire safety, sanitary compliance
Administrative buildings	Construction headquarters, project offices	Full furniture and equipment package
Warehouses	Tool and material storage	Reinforced floor, steel frame
Medical points	Field medical stations	SNiP compliance requirements

Commercial Real Estate

Facility Type	Description	Advantages
Retail pavilions	Shops, pharmacies, bakeries	Rapid business launch, minimal bureaucracy
Office buildings	Administrative centers, sales offices	Layout flexibility, relocation capability
Cafes and restaurants	Modular food service units	Full engineering system integration
Car washes and service centers	Auto service facilities	Reinforced floor, ventilation, drainage
Sports complexes	Locker rooms, gymnasiums	Structural strength, sound insulation

Turnkey Installation Supervision

Metal-Asia.pw provides comprehensive installation supervision services for modular buildings. The buyer receives a fully operational facility with zero operational burden or additional expenditure.

Stage	Scope	Duration
1. Site preparation	Clearing, leveling, marking	1 day
2. Foundation installation	Screw pile or block mounting	1-2 days
3. Module delivery	Transport to site, crane unloading	1 day
4. Module assembly	Deployment, connection, joint sealing	1-2 days
5. Engineering system connection	Electrical, water, sewage, heating	1-2 days
6. Interior finishing	Partition installation, wall and floor finish	2-3 days
7. Commissioning	System testing, trial operation	1 day
8. Handover	Acceptance certificate, personnel briefing	1 day
TOTAL		8-13 days

Installation supervision scope:

- Factory acceptance inspection of modular units
- Equipment preparation for installation works
- Buyer personnel briefing on assembly and operation
- On-site installation quality control
- Commissioning per approved working documentation
- Full furniture and equipment package (per specification)

Metal-Asia.pw installation supervision advantages:

- Buyer incurs no separate installation crew costs
- Quality assurance for all executed works
- Full compliance with construction norms and standards
- Minimum facility commissioning timeline
- Post-warranty service and technical support

Services and Solutions

- [Engineering audit for complex orders](#)
- [B2B procurement services from China](#)
- [Customs and logistics compliance from China](#)
- [B2B order audit](#)
- [Integrated sourcing and procurement](#)
- [Integrated engineering systems](#)
- [Technical specification preparation for Chinese manufacturers](#)
- [What is a Technical Specification \(TS\)](#)

Project Gallery



Modular buildings and rapid-assembly structures

FAQ: Frequently Asked Questions

Question 1: Is a construction permit required for container installation? If the structure is installed on a permanent foundation with fixed utility connections, it is classified as capital construction and requires permitting. Installation on non-permanent foundations (concrete blocks, screw piles) without rigid ground attachment may qualify as temporary structure, simplifying the process. Consultation with local authorities is recommended.

Question 2: Is the container suitable for year-round occupancy in cold climates? Yes, provided adequate insulation and ventilation systems are in place. The HYxf-1875 features 75 mm mineral wool sandwich panels and double glazing. For regions below -25°C , additional floor and ceiling insulation is recommended.

Question 3: Can the container be disassembled and relocated? Yes, this is the core advantage of the technology. The structure folds to 410 mm height, enabling transport of up to 4 modules on a single 17.5 m flatbed. Dismantling and relocation require 1-2 days.

Question 4: What are the actual delivery and installation timelines? Factory manufacturing takes 15-30 working days. Port-to-port delivery depends on routing. On-site installation on prepared foundation requires 1-2 days per module. Turnkey installation supervision delivers the facility within 8-13 days after delivery.

Question 5: What foundation type is required? The optimal solution is screw piles SVS 89 or SVS 108. A standard 6x3 m module requires 6-8 piles. Installation takes 1-2 days. Alternative: block foundation for temporary installations, or slab foundation for permanent setups.

Question 6: How are utility connections implemented? The container features standard 220 V, 50 Hz electrical inlet. Water and sewage connect via flexible hoses and pipes. For winter operation, pipe insulation and heated water supply are recommended. All connections are executed by certified technicians under installation supervision.

Question 7: Can multiple containers be combined into a single building? Yes, containers are designed for modular interconnection. Horizontal and vertical stacking is possible using connection hardware. Joint sealing employs butyl rubber tape and polyurethane sealant.

Question 8: What warranty coverage is provided? Warranty period is 12 months from factory dispatch. Coverage includes manufacturing defects in frame, panels, and electrical equipment under standard

operating conditions. Service life under normative compliance is minimum 15 years. Post-warranty support includes spare parts supply and technical consultation.

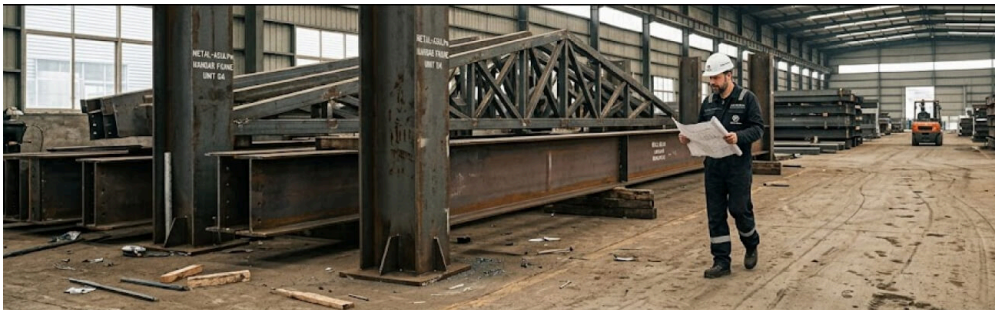
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Modular structures for rapid construction of residential and industrial facilities