

Commercial Proposal for Supply

Container Modules & Workforce Housing Camps for Remote Projects

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B2B / B2C | GLOBAL PROCUREMENT

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Executive Summary

The global workforce accommodation market, serving oil & gas, mining, infrastructure, and renewable-energy EPC contractors, demands rapid-deployment housing that satisfies stringent HSE, fire-safety, and structural codes. Container modules built on rigid steel frames with mineral-wool or EPS sandwich panels offer repeatable transport geometry, stackable configurations up to three storeys, and full MEP integration. Metal-Asia.pw delivers turnkey container camps and standalone modules with **Supply Chain Compliance** documentation, third-party inspection, and on-site supervision for projects across the Middle East, Africa, Southeast Asia, and the Americas.



Container modules and workforce camps for remote oil and mining sites

Client Pain Points in Direct China Procurement

- **Climatic & Thermal Non-Compliance.** Direct Chinese shipments often supply insulation of 60–80 kg/m³ density, whereas cold-climate projects require 100–140 kg/m³ rock wool to meet local energy codes. Buyers face condensation, mould, and 25–35% higher heating OPEX.
- **Electrical & Life-Safety Gaps.** Chinese suppliers frequently fit distribution boards to GB/T 7251 without RCD/AFCI protection or arc-fault detection required by IEC 60364 / NFPA 70. Fire-alarm panels may lack EN 54-2 certification, exposing operators to liability.
- **Missing MEP Integration.** Remote camps require centralised HVAC, sewage-treatment plants, and potable-water skids. Direct FOB purchases rarely include engineered MEP packages, forcing buyers to source locally at premium cost and incompatible specification.

- **Customs Detention & Misclassification.** Container modules under HS 9406.90 require correct declaration of frame material, intended use (residential vs. utility), and fire-classification certificates. Errors trigger port inspection, demurrage, and duty reassessment.
- **No Installation or Warranty Reach.** Most Chinese vendors stop at port. Buyers must self-manage anchoring, module levelling, MEP hook-up, and commissioning. Post-delivery defects (door-seal leakage, roof sheet delamination) are resolved slowly, if at all.

Our Professional Solution: Global Procurement & Direct Access

Metal-Asia.pw acts as your international procurement and compliance partner, eliminating opacity and risk from factory gate to site handover:

- **Factory Technical Audit** covering ISO 9001, ISO 14001, and welder qualification to EN ISO 9606.
- **Independent Pre-Shipment Inspection:** NDT, UT, spectrometric chemistry verification, insulation-density checks.
- Full MEP engineering and skid-mounted utility packages designed to IEC, NFPA, and local water-authority standards.
- **Trade Compliance Brokerage** — correct HS classification, duty-drawback, origin-certificate management.
- **Installation Supervision** at any global site, including anchor verification, module alignment, and commissioning.
- Milestone-based payment (30/40/30) tied to Factory Acceptance Testing (FAT), load-test witnessing, and packing-list verification.

Complete Product Range

Table 1. Standard Container Modules

Model	Frame	Insulation	Dimensions, mm	Area, m ²	Function	FOB Price, USD
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CM-01 "Basic"	Folded steel 2.0 mm	Rock wool 100 mm	6058 x 2438 x 2591	14.8	Guardhouse, storage	3,200 – 3,900
CM-02 "Site Office"	Folded steel 2.0 mm	Rock wool 100 mm	6058 x 2438 x 2591	14.8	Construction office	4,500 – 5,400
CM-03 "Standard Cabin"	Folded steel 2.5 mm	Rock wool 150 mm	6058 x 2438 x 2591	14.8	Sleeping 2–4 persons	5,800 – 6,900
CM-04 "Comfort Cabin"	Folded steel 2.5 mm	Rock wool 150 mm + foil	6058 x 3000 x 2896	18.2	Workforce camp	7,200 – 8,500
CM-05 "Sanitary"	Folded steel 2.0 mm	Rock wool 100 mm	6058 x 2438 x 2591	14.8	Shower / WC / laundry	6,500 – 7,800
CM-06 "Dining Hall"	Folded steel 2.5 mm	Rock wool 150 mm	6058 x 3000 x 2896	18.2	Canteen 20 seats	9,000 – 10,500
CM-07 "Medical"	Folded steel 2.0 mm	Rock wool 150 mm	6058 x 3000 x 2896	18.2	First-aid clinic	8,500 – 9,800
CM-08 "Fire Post"	Folded steel 2.5 mm	Rock wool 100 mm	6058 x 2438 x 2591	14.8	Fire panel + alarm	7,800 – 9,200

Table 2. Workforce Camp Complexes (Modular Camp Systems)

Complex	Module Count	Berths	Area, m ²	Storeys	FOB Price, USD
CC-01 "Small"	12	48	210	1	72,000 – 85,000
CC-02 "Standard"	24	96	430	2	138,000 – 162,000
CC-03 "Base"	36	144	650	2	198,000 – 235,000
CC-04 "Large"	60	240	1080	3	320,000 – 380,000
CC-05 "Field"	80	320	1440	3	420,000 – 490,000

Table 3. MEP Systems Included in Camp Complexes

System	Description
Power Distribution	Main panel 380 V, module sub-panels, LED lighting, RCD/AFCI, earthing grid
Heating	Electric convectors 2 kW/module or centralised boiler plant with radiator loops
Potable Water	Centralised header, storage tanks, booster pump set, filtration
Sewage	Packaged biological treatment plant or septic tank sized for total population
Ventilation	Supply-extract ductwork in PVC or galvanised steel with grilles
Fire Safety	Addressable fire panel, smoke/heat detectors, sounder beacons, extinguishers
IT / CCTV	Fibre entry, Wi-Fi mesh, IP cameras (optional)

Technical Specifications

- **Frame:** Cold-formed folded steel S235JR/S275JR, 2.0–2.5 mm, galvanised or powder-coated to EN 10346.
- **Cladding:** Sandwich panels 60–100 mm, infill rock wool 100–140 kg/m³ or EPS 15–20 kg/m³, fire class A2-s1,d0 / B-s1,d0 per EN 13501-1.
- **Fire resistance:** REI 30–REI 60 with rock-wool cores and metal facings.
- **Seismic resistance:** Verified to 8 MMI with anchor-bolt hold-downs M16 at 600 mm centres.
- **Thermal transmittance:** Wall U-value 0.35–0.50 W/(m²·K) depending on panel thickness.
- **Cold-climate rating:** Operation to –50°C with 200 mm insulation and double-glazed units.

HS Codes, Customs & Trade Compliance

Product	HS Code	Typical Duty	VAT/GST	Key Document
Steel-frame container modules	9406.90.10	0–3%	20% / state VAT	CE/UKCA (CPR), DoP
Sandwich panels (wall/roof)	7308.90 / 7610.10	0–7.5%	20% / state VAT	CE marking, fire test EN 13501-1

PVC window units	3925.20	0–6.5%	20% / state VAT	REACH SVHC, CE marking
Electrical distribution boards	8537.10	0–3%	20% / state VAT	CE/LVD/EMC, IEC 61439
Sanitary fixtures / pumps	8481 / 3922	0–7%	20% / state VAT	CE/WRAS where applicable

Our [Trade Compliance](#) team manages full HS classification, customs valuation, and duty-drawback optimisation under applicable bilateral agreements.

Metal-Asia.pw vs Direct China Sourcing

Evaluation Criterion	Direct China Supplier	Procurement via Metal-Asia.pw
Code Adaptation	GB standards only	EN, ASTM, local codes; full structural adaptation
Incoming QC	Photos / video only	NDT , UT , spectrometry , insulation density
Electrical / Fire Safety	GB/T 7251, no RCD	IEC 60364, EN 54-2, NFPA 70 compliant panels
Customs Brokerage	Buyer-managed	End-to-end brokerage
Installation Supervision	Not available	On-site supervisors worldwide
Tender & Framework Support	None	FIDIC / IFC / World Bank compliant
Payment Security	100% TT advance	30/40/30 milestone-linked to FAT

Integrated Services Portfolio

- [Factory Technical Audit](#) — ISO 9001, ISO 14001, EN 1090.
- [Global Procurement Services](#) — contract-to-commissioning programme management.
- [Trade Compliance & Logistics](#) — multimodal freight, customs, origin management.
- [B2B Supplier Due Diligence](#) — credit and litigation checks in China.
- [Engineered Procurement](#) — specification optimisation for climate and budget.
- [Materials Testing and Coating Verification](#).
- [MEP Engineering](#) — HVAC, plumbing, electrical, low-voltage design.

- **Installation Supervision** — assembly management, commissioning, O&M handover.

Frequently Asked Questions (FAQ)

1. What is the lead time for a 100-person workforce camp?

Production: 45–60 days. Ocean freight to Middle East / Africa: 20–25 days. On-site assembly and commissioning: 10–14 days. Total door-to-door: 75–100 days.

2. Are workforce camps considered permanent or temporary structures?

Most camps are classified as temporary structures (typically up to 7 years), requiring simplified permitting. For permanent installations, we provide structural calculations and environmental assessments to support full building-permit applications.

3. How is fire safety assured in sleeping modules?

All residential modules are fitted with addressable fire-detection panels, smoke/heat detectors, sounder beacons, and portable extinguishers. Cladding materials achieve Euroclass A2-s1,d0 or B-s1,d0. Escape-route lighting and signage comply with EN 1838.

4. Can camps be erected in winter?

Yes. Assembly is a dry process using bolted connections; no concrete curing is required. Modules can be anchored and stacked to –25°C.

5. What foundations are required?

Helical piles (steel screws) Ø108–133 mm or shallow strip footings 400×400 mm are sufficient for most soil conditions. On permafrost or swamp, we design pile caps or timber raft foundations.

6. What warranty is provided?

Structural frame: 10 years. MEP systems: 2 years. Internal finishes: 1 year. Post-warranty support includes remote diagnostics and spare-part supply.

7. Do you support public-sector tenders?

Yes. We prepare full tender documentation under FIDIC, IFC, and World Bank frameworks, including performance bonds, advance-payment guarantees, and milestone-based invoicing.

8. Can camps be expanded after initial deployment?

Yes. The modular system allows future expansion by adding standard-width modules without dismantling existing units. Inter-module MEP corridors are pre-cabled and pre-plumbed for plug-and-play connection.

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