

Metal-Asia

Commercial Proposal for Supply

Packing List and Customs Clearance Documentation for Air-Supported Structures

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Executive Summary

Proper packing list preparation and customs documentation compliance are mission-critical for international shipments of Air-Supported Structures. Incorrect HS code classification, missing conformity certificates, or inadequate packaging of membrane materials result in customs detention, demurrage charges, material damage, and project timeline disruption. Metal-Asia.pw provides complete customs documentation packages, pre-shipment classification verification, and logistics coordination ensuring transparent supply chain compliance from factory gate to project site.



Transport packaging of membrane panels and climate equipment for international shipment

Market Challenges in Unassisted Customs Clearance

International buyers managing their own customs documentation for industrial membrane structures face systematic compliance failures:

- Incorrect HS code classification: PVC-coated fabric classified under generic textile headings (54.07) instead of reinforced plastic sheeting (39.21), triggering 15–25% duty overpayment or customs rejection
- Missing conformity documentation: Absence of CE marking, fire safety test reports (B1/M2), or structural load certificates at port of entry causing 2–6 week detention
- Inadequate membrane packaging: Folded rather than rolled storage, exposure to UV during port handling, crease radii below 30 cm causing permanent deformation
- Missing Material Safety Data Sheets (MSDS) for sealants and chemical compounds: Customs hold for hazardous material review, additional laboratory testing fees
- Improper Incoterms selection: EXW or FOB terms transferring liability before adequate insurance coverage, exposing buyers to total loss risk during ocean transit
- Incomplete commercial invoice detail: Generic descriptions ("industrial equipment") rather than itemized component lists with individual HS codes, triggering customs valuation audits
- Absence of shock indicators and moisture sensors on climate equipment crates: Undetected transit damage discovered only at installation, voiding warranty claims

- Missing Certificate of Origin (Form A / EUR.1): Inability to claim preferential duty rates under bilateral trade agreements, 5–10% cost penalty
- Unconsolidated shipping: Individual LCL (Less than Container Load) shipments for 13+ component categories multiplying handling fees, port charges, and customs brokerage costs

Our Solution: Integrated Packing and Customs Documentation Compliance

[Metal-Asia.pw](https://www.metal-asia.pw) provides integrated procurement, packing optimization, and customs clearance services for industrial equipment from China. Our supply chain compliance program includes HS code pre-classification, conformity certificate preparation, consolidated shipping programs, and full customs documentation packages aligned with destination country regulations. We support international tender submissions, distributor onboarding, and large-scale B2B supply programs with full transparency and direct manufacturer access.

Shipment Overview

Field	Specification
Cargo description	Air-Supported Structure (ASS) for industrial application
Application	Bulk material storage / Manufacturing hall / Logistics terminal
Structural type	Double-layer membrane / Triple-layer / Cable-reinforced
Country of origin	China (PRC)
Supplier	Metal-Asia.pw verified manufacturing partner
Delivery terms	CIP / CIF / FCA / EXW — per agreement
Transport mode	Ocean container / Road freight / Rail
Port of loading	[Per agreement]
Port of discharge / Customs office	[Per agreement]
Total packages	Per calculation
Gross weight	Per actual
Total volume	Per actual
Contract reference	[Per agreement]
Shipping date	[Per agreement]
Incoterms 2020	[Per agreement]

Detailed Packing List by Package

Package 1: Outer Membrane Panels

Parameter	Specification
Description	Reinforced PVC membrane, outer shell

Parameter	Specification
Quantity	Per calculation — rolls / panels
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Material	Reinforced PVC-coated fabric, density 900–1500 g/m ² , PVDF/TiO ₂ protective layers
HS Code	3921.90.90
Packaging	Reinforced cardboard transport boxes / polyethylene protective sleeves
Marking	FRAGILE, DO NOT FOLD, KEEP DRY, EXA, batch number
Special conditions	Store in dry facility, temperature -10 to +40 °C, no bending radii below 30 cm

Package 2: Inner Membrane + Insulation Layer

Parameter	Specification
Description	Reinforced PVC membrane, inner shell + insulation layer
Quantity	Per calculation — rolls / panels
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Material	Reinforced PVC-coated fabric, density per calculation
HS Code	3921.90.90
Packaging	Reinforced cardboard transport boxes
Marking	FRAGILE, DO NOT FOLD, KEEP DRY, EXA, batch number
Special conditions	Store in dry facility, temperature -10 to +40 °C

Package 3: Cable Reinforcement Net

Parameter	Specification
Description	Galvanized steel cable reinforcement system
Quantity	Per calculation — coils / reels

Parameter	Specification
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Material	Galvanized steel cables, 9 mm diameter, GOST 3063-80 equivalent
HS Code	7312.10
Packaging	Wooden reels, stretch film, steel strapping
Marking	STEEL CABLE, DO NOT DROP, EXA, batch number, diameter, length
Special conditions	Store in dry facility, corrosion protection

Package 4: Installation Hardware Kit

Parameter	Specification
Description	Installation connection hardware kit
Quantity	Per calculation — kits
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Contents	Aluminum plates 6x40x195 mm; M8 bolts with nuts and washers; silicone sealant; protective tape 250 mm; 6 mm fire carabiners
HS Code	7610.90 (aluminum); 7318.15 (bolts); 3214.10 (sealant)
Packaging	Plastic crates, cardboard boxes
Marking	HARDWARE KIT, EXA, batch number

Package 5: Anchor System (Steel Angle, Anchor Bolts)

Parameter	Specification
Description	Steel equal-leg angle section + anchor bolts
Quantity	Per calculation — angle pieces / bolt sets
Gross weight	Per actual
Net weight	Per actual

Parameter	Specification
Dimensions (LxWxH)	Per actual
Volume	Per actual
Contents	Steel equal-leg angle 50x5 / 63x6 / 80x6 mm, 1 m length; anchor bolts M12–M16
HS Code	7308.90 (angle); 7318.15 (bolts)
Packaging	Pallets, steel strapping, stretch film
Marking	STEEL ANCHOR, HEAVY, EXA, batch number

Package 6: Air Handling Units (Primary + Redundant)

Parameter	Specification
Description	Air handling unit (primary + redundant)
Quantity	2 pcs
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Type	Supply-exhaust with heat exchanger, 3 ACH capacity
HS Code	8414.59
Packaging	Wooden crate, moisture barrier film, shock indicators
Marking	HVAC UNIT, THIS SIDE UP, HANDLE WITH CARE, EXA, model number
Special conditions	Shock protection, store in dry facility

Package 7: Heating Generators / Air Heaters

Parameter	Specification
Description	Heating generator / air heater
Quantity	Per calculation
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual

Parameter	Specification
Type	Air heater with heat exchanger
Fuel type	Natural gas / Diesel / Fuel oil / Electric
HS Code	8415.81 / 8416.20
Packaging	Wooden crate, moisture barrier film
Marking	HEATER UNIT, FUEL TYPE, EXA, model number

Package 8: Emergency Diesel Generator Set (EDG)

Parameter	Specification
Description	Emergency diesel generator set
Quantity	1 pc
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Power rating	Per calculation — kW / kVA
HS Code	8502.11
Packaging	Wooden crate, moisture barrier film, shock indicators
Marking	DIESEL GENERATOR, THIS SIDE UP, HANDLE WITH CARE, EXA, power rating
Special conditions	Shock protection, fuel drain before transport

Package 9: Insulated Equipment Enclosure

Parameter	Specification
Description	Insulated container for climate equipment housing
Quantity	1 pc
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Material	Steel frame, sandwich panels, insulated doors
HS Code	9406.00

Parameter	Specification
Packaging	Open pallet loading, stretch film
Marking	CONTAINER, OVERSIZED, EXA, model number

Package 10: Airlock Door Systems

Parameter	Specification
Description	Airlock systems: pedestrian revolving doors, emergency exits, cargo airlocks
Quantity	Per calculation — revolving / emergency / cargo units
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Contents	Aluminum/steel frame, transparent PVC/PC panels, sectional overhead doors
HS Code	7308.30
Packaging	Wooden crates, moisture barrier film
Marking	AIRLOCK SYSTEM, FRAGILE, EXA, model number

Package 11: LED Lighting System

Parameter	Specification
Description	LED floodlights for direct and indirect/reflected lighting
Quantity	Per calculation
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Type	LED floodlights, power per calculation, IP65
HS Code	9405.10
Packaging	Cardboard boxes, plastic trays
Marking	LED LIGHTING, FRAGILE, EXA, model number

Package 12: Automation and Sensor Package

Parameter	Specification
Description	Automation and building management system (BMS) package
Quantity	1 set
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Contents	PLC, automation cabinets, pressure/wind/snow/gas sensors, fire alarm, variable frequency drives
HS Code	8537.10 / 9026
Packaging	Wooden crate, anti-static packaging, shock indicators
Marking	ELECTRICAL PANEL, FRAGILE, KEEP DRY, EXA, model number
Special conditions	Moisture and shock protection, store at -10 to +40 °C

Package 13: Technical Documentation and Spare Parts

Parameter	Specification
Description	Technical documentation and spare parts kit
Quantity	1 set
Gross weight	Per actual
Net weight	Per actual
Dimensions (LxWxH)	Per actual
Volume	Per actual
Contents	Operation manual, installation instructions (English/Chinese), electrical schematics, conformity certificates, spare filters, belts, fuses, HF welding electrode set
HS Code	4901.99
Packaging	Plastic case / cardboard box
Marking	TECHNICAL DOCS, DO NOT LOSE, EXA

Consolidated Packing Summary

Package	Description	Quantity	HS Code
1	Outer membrane	Per calculation	3921.90.90

Package	Description	Quantity	HS Code
2	Inner membrane + insulation	Per calculation	3921.90.90
3	Cable reinforcement net	Per calculation	7312.10
4	Installation hardware	Per calculation	7610.90 / 7318.15 / 3214.10
5	Anchor system	Per calculation	7308.90 / 7318.15
6	Air handling units (primary + redundant)	2 pcs	8414.59
7	Heating generators	Per calculation	8415.81 / 8416.20
8	Emergency diesel generator	1 pc	8502.11
9	Insulated equipment enclosure	1 pc	9406.00
10	Airlock door systems	Per calculation	7308.30
11	LED lighting system	Per calculation	9405.10
12	Automation and sensors	1 set	8537.10 / 9026
13	Technical documentation	1 set	4901.99

Regulatory Documentation for Import Clearance

Document	Requirement	Lead Time
CE Conformity Assessment / Declaration of Conformity	Mandatory	7–21 days
ISO 9001 Manufacturing Audit Report	Per contract	14–30 days
Fire Safety Classification Test Report (B1/M2)	Mandatory	7–14 days
Structural Load Test Report (wind/snow)	Per jurisdiction	14–30 days
Material Safety Data Sheet (MSDS) for sealants	For chemical products	3–5 days
Certificate of Origin (Form A / EUR.1 / CO)	Per request	1–3 days
Third-Party Inspection Report (DNT, UT)	Mandatory	Concurrent with manufacturing
Commercial Invoice (itemized, with HS codes)	Mandatory	Prepared with shipment
Packing List (detailed, with package numbers)	Mandatory	Prepared with shipment
Bill of Lading (B/L) or Air Waybill (AWB)	Mandatory	Issued by carrier
Insurance Certificate (110% CIF value)	For CIF/CIP terms	Issued by insurer

Customs Documentation Checklist

Item	Document	Copies
1	Foreign trade contract	1 (original)
2	Commercial invoice	3 (original + copies)
3	Detailed packing list	3 (original + copies)
4	Transport documents (B/L, CMR, AWB)	1 (original)
5	Certificate of origin	1 (if applicable)
6	Conformity certificate / Declaration	1 (copy)
7	Material safety data sheet (MSDS)	1 (for chemical products)
8	Technical equipment passport	1 (English language)
9	Operation manual	1 (English language)
10	Insurance policy (CIF/CIP)	1 (original)
11	Customs declaration	1 (prepared by broker)
12	Import license (if applicable)	1 (per specific items)

Transport and Storage Conditions

Parameter	Condition
Membrane storage temperature	-10 °C to +40 °C
Membrane storage humidity	Below 80%
UV protection for membrane	Mandatory
Mechanical damage protection	Mandatory for all components
Maximum storage period before installation	12 months (membrane); unlimited (steel structures)
Recommended transport mode	Ocean container 20' / 40' / 40'HC (membrane and equipment); open loading (steel structures)
Cargo insurance	110% of goods value, all-risks coverage

Why Metal-Asia.pw — Direct Access, Transparency, Compliance

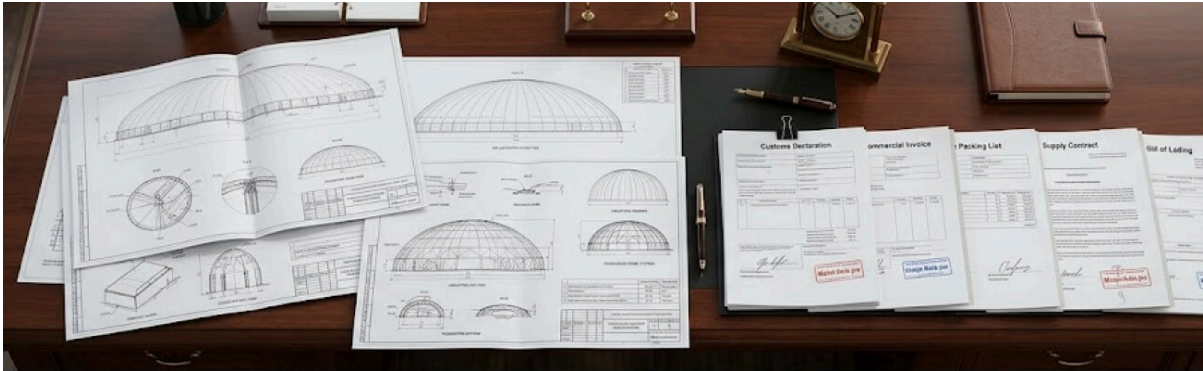
- Pre-shipment HS code classification verification preventing customs detention
- Complete conformity documentation package prepared before cargo departure
- Consolidated container loading programs reducing per-unit logistics costs
- 110% all-risks cargo insurance with named beneficiary protection
- Bonded warehousing and consolidation facilities at major transshipment ports
- Customs brokerage partnerships in destination jurisdictions
- Transparent landed cost calculation with locked exchange rate options
- Real-time shipment tracking and documentation portal access

Contact Information

For detailed service specifications and portfolio references, visit Metal-Asia.pw.

Global Procurement Desk:

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Request customs documentation and logistics quotation — email zakaz@metal-asia.pw with destination port and Incoterms preference