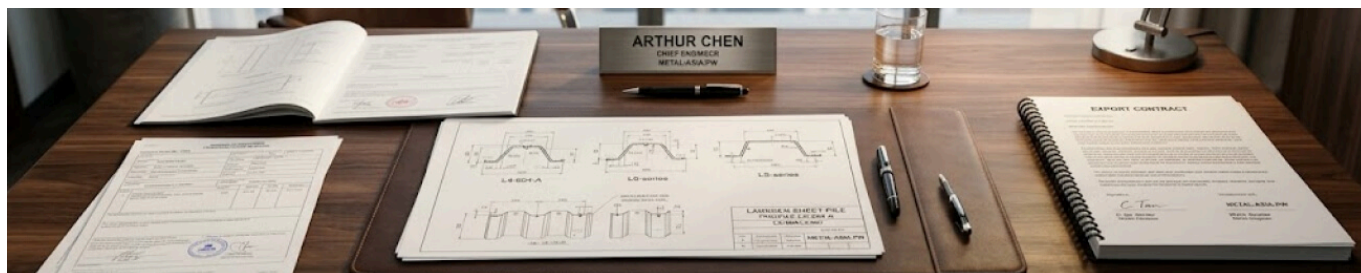


Metal-Asia

Overview of Packaging, Transport, and Logistics for Sheet Pile from China to Global Markets

Multimodal Routes, Packaging Standards, and Procurement Checklist

Metal-Asia.pw operates as a direct procurement partner with leading Chinese steel mills (Jinxi Steel, Grand Piling, Anshan Zizhu), delivering hot-rolled sheet pile sections without intermediary markups. We are a leader in the B2B metal products market, addressing core client needs in reliability, supply chain substitution, and technical support. Our engineering team maintains permanent presence at mill facilities, conducting ultrasonic testing (UT), non-destructive testing (NDT), and full chemical composition verification to ensure 100% lock compatibility. Metal-Asia.pw provides comprehensive high-reliability sheet pile supply from China, including full tender bid support under international procurement frameworks, with experience in government and defense sector contracts. Our services include end-to-end quality control (NDT, UT), instrumental chemical composition verification per international standards, and [customs clearance and comprehensive VED support](#) turnkey with full closing documentation package. Lead technical expert: [Milos Kovacevic](#).



Transportation of Larssen sheet pile bundles from China

Packing List Standardization

Piece and Bundle Tracking

Every sheet pile shipment from Chinese mills is accompanied by a detailed Packing List containing:

Field	Description	Example
Contract No	Foreign trade contract number	MA-2026-WR22-001
PO No	Purchase order number	PO-7423-MS
Heat No	Heat number	JX-2026-03-15-H3
Bundle No	Bundle number	B-001, B-002, ...
Pcs per bundle	Pieces per bundle	25 pcs
Profile	Profile grade	WR22-600
Steel grade	Steel grade	S355JO

Field	Description	Example
Length	Profile length	12,000 mm
Thickness	Web thickness	12.5 mm
Width	Installation width	600 mm
Weight per piece	Weight of single profile	1,620 kg
Weight per bundle	Bundle weight	5,400 kg
Total weight	Total batch weight	26,000 kg
Marking	Profile marking	Heat No + steel grade + length

Bundle Formation Rules (Bundling)

Parameter	Requirement
Bundle weight	3.5 – 7.0 tons
Pieces per bundle	15 – 35 pcs (depending on length and weight)
Strapping	Steel band 32x0.8 mm, 2-3 straps per bundle
End protection	Wooden blocks or metal corner guards
Lifting holes	Diameter 40-50 mm, 2-4 holes per bundle
Stacking	Profiles stacked locks-down, alternating direction

Profile Marking

Each sheet pile is marked with paint or stencil: Heat Number (mandatory), steel grade (S355JO, S390GP, etc.), profile length (mm), mill logo (Jinxi, Grand Piling, Anshan Zizhu), Metal-Asia.pw logo (upon request), production date. Marking is applied on both flanges at 2-3 meter intervals for identification during unloading. For quality control before shipment, we recommend conducting [pre-shipment inspection](#) with photo reports and protocols.

Logistics Routes

Route 1: Multimodal via Vladivostok

Stage	Route	Duration	Cost (market)	Cost (Metal-Asia.pw)
Mill – China port	Road / Rail	2-3 days	15-25 USD/ton	11-18 USD/ton
China port – Vladivostok	Sea	7-10 days	77 USD/ton	55 USD/ton
Vladivostok – customs	Port	3-5 days	40 USD/ton	29 USD/ton
Vladivostok – Moscow	Rail	7-10 days	55-75 USD/ton	40-54 USD/ton
TOTAL		19-28 days	187-215 USD/ton	135-155 USD/ton

Advantages: Fastest sea route, low freight cost. Disadvantages: Seasonal restrictions (ice conditions in winter), port transshipment required. For reliability assurance, we recommend [cargo insurance and VED risk management](#).

Route 2: Direct Rail via Zabaykalsk

Stage	Route	Duration	Cost (market)	Cost (Metal-Asia.pw)
Mill — border	Rail	3-5 days	25-40 USD/ton	18-29 USD/ton
Zabaykalsk — customs	Border crossing	2-4 days	60-80 USD/ton	43-58 USD/ton
Zabaykalsk — Moscow	Rail	5-7 days	55-75 USD/ton	40-54 USD/ton
TOTAL		10-16 days	140-195 USD/ton	101-141 USD/ton

Advantages: Minimal transshipment, stable schedules, year-round operation. Disadvantages: High border crossing load during peak periods (spring, autumn). For optimal route planning, we recommend [multimodal transport from China: Sea + Rail and white customs clearance](#).

Route 3: Deep Sea via Novorossiysk

Stage	Route	Duration	Cost (market)	Cost (Metal-Asia.pw)
Mill — China port	Road / Rail	2-3 days	15-25 USD/ton	11-18 USD/ton
China port — Novorossiysk	Sea (via Suez)	28-35 days	365-450 USD/ton	263-324 USD/ton
Novorossiysk — customs	Port	4-7 days	50-70 USD/ton	36-50 USD/ton
Novorossiysk — Moscow	Rail / Road	3-4 days	35-50 USD/ton	25-36 USD/ton
TOTAL		37-49 days	465-595 USD/ton	335-428 USD/ton

Advantages: Alternative route when Vladivostok is congested, direct delivery to southern regions. Disadvantages: Longest transit, high freight cost.

Batch Parameters and MOQ

Minimum Order Quantities

Supply Type	Minimum Volume	Delivery Time	Terms
Ready stock (China warehouse)	60 tons	15-20 days	Mill warehouse profiles
Rolling campaign	300-500 tons	35-50 days	Made-to-order production
Large project	1000+ tons	45-60 days	Special terms, price fixation

Supply Type	Minimum Volume	Delivery Time	Terms
Pilot batch	20-30 tons	20-25 days	Trial shipment, premium price

Container Loading

Container Type	Max Weight	Volume	Profile Quantity (12m)	Note
20GP	21 tons	33.2 m ³	12-15 pcs	For small batches
40GP	26 tons	67.7 m ³	18-22 pcs	Rail standard
40HQ	26 tons	76.3 m ³	18-22 pcs	For long profiles (18-24m)
Open Top 40'	26 tons	67.7 m ³	18-22 pcs	For non-standard length
Flat Rack 40'	26 tons	—	18-22 pcs	For extra-long profiles

For optimal container type selection and load calculation, we recommend [selection per GOST standards](#) considering profile dimensions and weight.

Transport Requirements

Rail Transport

Wagon type: gondola or flatcar for metal structures. Securing: steel tension straps, wooden chocks. Stacking: profiles laid horizontally, locks down. Protection: tarpaulin or polyethylene film against weather. Max stacking height: 3.8 meters (per rail gauge).

Sea Transport

Vessel type: bulk carrier or container ship. Hold securing: wooden dunnage, steel lashings. Ventilation: mandatory to prevent condensation. Insurance: All Risks (full coverage). Inspection: before loading (hold condition, securing). For cargo integrity assurance, we recommend [NDT quality control](#) before vessel loading.

Road Transport (Warehouse to Site)

Vehicle type: flatbed semi-trailer or low-loader. Load capacity: up to 30 tons. Platform length: 13.6 meters (for 12m profiles). Securing: slings through lifting holes, chocks. Permit: required if gauge limits exceeded.

Section 8. Procurement Checklist

Pre-Shipment Inspection at Mill in China

No.	Inspection Item	Method	Responsible	Document
1	Profile grade compliance	Visual marking check	Metal-Asia.pw inspector	Photo report
2	Lock geometry check	Template, ruler, square	Metal-Asia.pw inspector	Measurement protocol
3	Profile length control	Tape measure (tolerance +/- 50 mm)	Metal-Asia.pw inspector	Measurement table
4	Web thickness check	Ultrasonic thickness gauge	Metal-Asia.pw inspector	UT protocol
5	Visual defect control	100% surface inspection	Metal-Asia.pw inspector	Defect report
6	Bundle weight check	Mill scales	Metal-Asia.pw inspector	Weighing statement
7	MTC completeness check	Order verification	Metal-Asia.pw inspector	MTC copy
8	Packaging check	Visual inspection	Metal-Asia.pw inspector	Photo report
9	Loading photo documentation	Photo/video recording	Metal-Asia.pw inspector	Media archive
10	Seal check	Seal numbers, integrity	Metal-Asia.pw inspector	Acceptance report

Reception Inspection at Client Warehouse

No.	Inspection Item	Method	Responsible	Document
1	Seal integrity check	Visual inspection	Client representative	Opening report
2	Packaging integrity check	Visual inspection	Client representative	Damage report
3	Bundle count vs Packing List	Count	Client representative	Statement
4	Marking verification	MTC cross-check	Client representative	Protocol
5	Sample lock geometry check	Template (5% of batch)	Client representative	Protocol
6	Sample thickness check	UT gauge (5% of batch)	Client representative	UT protocol

No.	Inspection Item	Method	Responsible	Document
7	Control bundle weighing	Warehouse scales	Client representative	Weighing report
8	MTC availability check	Batch verification	Client representative	Document registry
9	GOST R Declaration availability	Batch verification	Client representative	Document registry
10	Radiation control	Dosimeter	Warehouse service	Certificate

Non-Conformance Action Algorithm

Minor deviations (within GOST/EN tolerance): record in acceptance report, continue inspection without stoppage. Significant deviations (outside tolerance but usable): stop inspection, prepare claim report, notify Metal-Asia.pw within 24 hours, negotiate discount or replacement within 5 business days. Critical deviations (unusable): stop inspection, prepare claim report with photo/video documentation, notify Metal-Asia.pw within 12 hours, initiate return or replacement within 3 business days, independent expertise if required. For non-conformance prevention, we recommend [NDT metal inspection before purchase](#).

Cargo Insurance

Insurance Terms

Parameter	Standard Coverage	Extended Coverage
Policy type	Institute Cargo Clauses (C)	Institute Cargo Clauses (A)
Coverage	Fire, collision, sinking	All Risks
Insured value	CIF + 10%	CIF + 20%
Deductible	0.5% of value	0%
Cost	0.15% of value	0.35% of value
Period	Loading to unloading	Mill warehouse to client warehouse

Loss Settlement Procedure

Immediate insurance company notification (within 24 hours), loss documentation (photos, video, report), document provision (Bill of Lading, MTC, Packing List), insurance company decision waiting period (up to 30 days), payment or reasoned refusal.

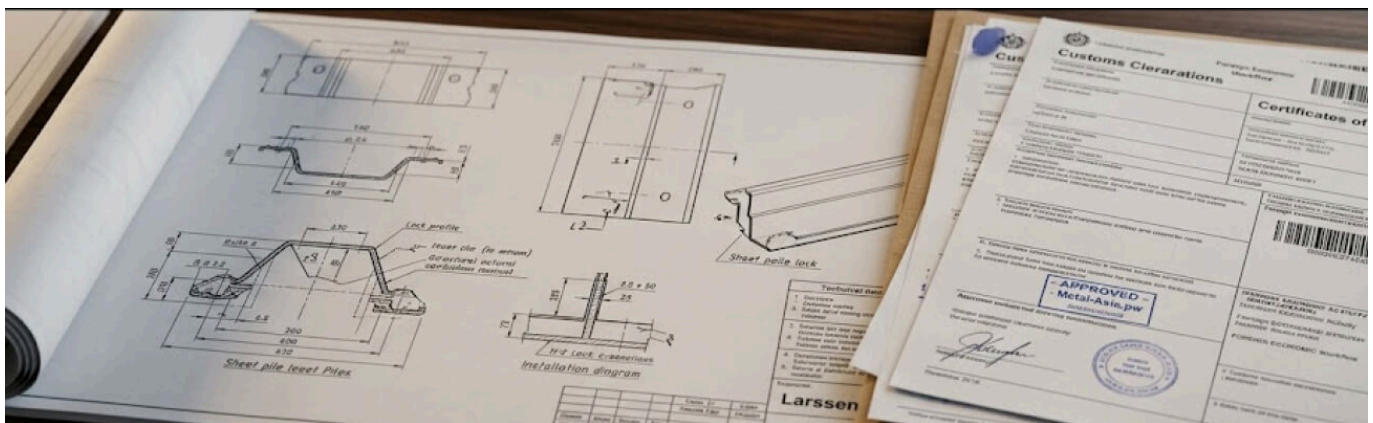
FAQ: Frequently Asked Questions on Logistics and Packaging

1. What lock geometry tolerances are checked during loading? At mill: lock width (+/- 0.5-0.6 mm), depth (+/- 0.3-0.4 mm), angle (+/- 0.5-0.6°). Exceeding 0.8 mm — reject, return to rolling mill.

2. Which steel grade is indicated on the Packing List? Packing List contains complete information: Contract No, Heat No, Bundle No, steel grade, length, thickness, bundle weight, and total weight.
3. Does Chinese sheet pile undergo radiation control during delivery? Yes, 100% of batches at border. Acceptable level: 0.3 $\mu\text{Sv/h}$. Exceeding — return to sender.
4. What is bundle turnover during warehousing? Bundles stacked up to 3.8 m height. Single stack weight: up to 26 tons. Recommended storage on level surface with corrosion protection.
5. What CVA conditions are possible during transport? CVA is not related to transport but to customs value. Metal-Asia.pw provides full documentation package for protection.
6. What port charges are included in delivery costs? Port charges (loading, storage, documentation) are included in Metal-Asia.pw logistics rates at 28% discount.
7. Is winter sheet pile transport via Zabaykalsk possible? Yes, rail route operates year-round. Sea route via Vladivostok may have seasonal restrictions.
8. How to control bundle integrity during delivery? Seal check, visual packaging inspection, Packing List cross-check. For damage — prepare report in carrier presence.

NOTICE: LEGAL DISCLAIMER ON PRICING

All cost calculations, logistics tariffs, and customs clearance fees presented in this material are preliminary and for informational purposes only. Final and accurate cost calculation for supplied products is performed strictly at the time of signing an addendum to the general foreign trade contract by mutual agreement of parties. Final commercial and legal cost is formed individually and directly depends on shipment volume (tonnage), contract specifics, financing schedule, selected Incoterms 2020 delivery terms, and agreed payment form. Metal-Asia.pw guarantees price fixation only after specification signing by both parties.



Multimodal sheet pile delivery direct from Chinese mills

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- Telegram: [@China_metal_supply](https://t.me/China_metal_supply)
- Email: zakaz@metal-asia.pw
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