



Transformer
High/Low Voltage Switchgear

PRODUCT CATALOGUE

www.jxguoxiang.com



Safe & Reliable



Efficient
Manufacturing



Flexible
Configuration



JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.

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JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.



Company Profile

Established in 2016 and headquartered in Nanchang Economic Development Zone, Jiangxi Province, Jiangxi GUOXIANG Electric Power Equipment Co., Ltd. is a national high-tech enterprise specializing in comprehensive power solutions. We provide full-cycle services covering R&D, manufacturing, sales, and engineering support. Core products include energy-efficient distribution transformer, high/low-voltage switchgear, substation equipment, and customized electric power solutions, providing reliable infrastructure support for global clients.

Key Milestones

- ◇ 2017: Recognized as a *Scale Enterprise*
- ◇ 2018: Accredited as a *National High-Tech Enterprise*
- ◇ 2020: Designated as a *Technology-Based SME (small medium enterprise)*
- ◇ 2022:
 - Listed on the New Fourth Board (Stock Code: 166106)
 - Awarded Provincial *SSDI Enterprise* (Specialized, Sophisticated, Distinctive, Innovative)
 - Honored as *China Renowned Brand* and *National Key Promotional Unit*
- ◇ Ongoing: Pursuing *National SSDI "Little Giant"* certification

Technical Competence

As a state-certified transformer manufacturer jointly certified by China's economic authorities, power utilities, and machinery industry associations, our products are listed in the National Grid Upgrade Recommended Equipment Catalog. Beyond mandatory CCC certification, we maintain rigorous ISO 9001 quality management and ISO 14001 environmental management systems. Our R&D team integrates 20+ years of industry experts with technical innovators, enabling full-cycle capabilities from material development and structural design to final product validation.

Market-Validated Performance

- ◇ Growth: 40% CAGR sustained since inception
- ◇ Projects: Completed 230+ urban/rural grid modernization projects
- ◇ Clients: 92% Retention rate with State Grid and industrial partners
- ◇ Network: Service network covering many countries and regions around the world

Global Commitment

Guided by the principle "Enterprise Without Borders, Excellence Through Sincerity," we deliver:

- ◇ Premium Products: Rigorous quality control for safety and reliability.
- ◇ Client-Centric Service: Responsive support tailored to global needs.
- ◇ Sustainable Innovation: Committed to eco-friendly manufacturing through green tech R&D and ISO 14001-certified carbon reduction frameworks.

Strategic Vision

As a trusted partner in global power infrastructure, GUOXIANG drives the advancement of intelligent grid ecosystem. Through collaborative innovation and operational excellence, we empower industries worldwide to achieve energy resilience and sustainable development.





Manufacturing base

Located at No. 1066 Wangxian Road, Nanchang, the company operates a modern industrial base spanning 21,510 square meters, integrating smart manufacturing, technological R&D, and sustainable operations. The campus is designed with intelligent production workshops, standardized testing centers, and eco-friendly office areas, equipped with state-of-the-art production lines and precision inspection equipment. Innovative integrated photovoltaic (PV) building designs and clean energy solutions vividly exemplify the deep fusion of industrial manufacturing and ecological harmony, demonstrating the sustainable development philosophy of China's smart manufacturing.



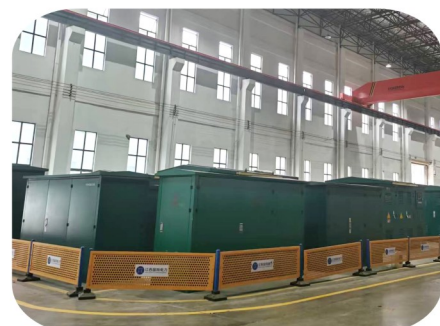
Certificates and Honors

GUOXIANG prioritizes quality management as its core competency, implementing an end-to-end ISO 9001 management system and upholding the policy of "Continuous refinement and improvement." As a first-batch designated enterprise under the national energy-saving program for high-efficiency distribution transformers, it holds certifications including CCC and ISO 14001 environmental management, driving ongoing quality evaluations and technological upgrades. With qualifications such as "Specialized, Sophisticated, Distinctive & Innovative (SSDI)" and "Technology-Based Small and Medium Enterprise", the company stands as a trusted supplier in grid transformation and industrial power distribution, backed by robust quality control expertise.





About production



About production



Application Industries



Metallurgical Industry



Machinery Manufacturing

Power Industry



Construction Industry



Railway Industry



Petroleum Industry

Partners (Partial)

CPFL Paulista (Brazil)	Jiujiang Power Supply Branch	Nanchang Power Supply Branch
State Grid Jiangxi Electric Power Co., Ltd.	Ji'an Power Supply Branch	Ganzhou Power Supply Branch
China Railway 12th Bureau Group Co., Ltd.	Shangrao Power Supply Branch	Yugan County Power Supply Branch
China Railway 14th Bureau Group Co., Ltd.	Tonggu County Power Supply Branch	Fuzhou Power Supply Branch
China National Petroleum Corporation (CNPC)	Dexing City Power Supply Branch	Le'an County Power Supply Branch
China Petroleum & Chemical Corporation (Sinopec)	Yichun Power Supply Branch	Jinxian County Power Supply Branch
Beijing Urban Construction Investment & Development Co., Ltd.	Pingxiang Power Supply Branch	Yingtian Power Supply Branch
Midea Real Estate Group & R&F Group (Hong Kong) Co., Ltd.	Ruichang City Power Supply Branch	Yiyang County Power Supply Branch
China Overseas Land & Investment Group Co., Ltd.	Jingdezhen Power Supply Branch	Northeast Jiangxi Power Supply Branch

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Transformer Substation

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Transformer Substation Series



Transformer
High/Low Voltage Switchgear

JIANGXI GUOXIANG ELECTRIC POWER EQUIPMENT CO., LTD.

Combined substation (European type)

YBW-12/0.4 Series



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Efficient Manufacturing



Flexible Configuration



Combined substation (European type)

YBW-12/0.4 Series

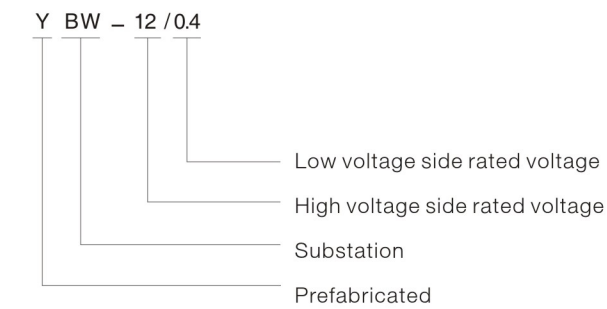
Product overview

A compact, fully integrated power distribution unit combining HV switchgear, transformers, and LV panels. Ideal for urban buildings, residential complexes, industrial parks, and other applications requiring reliable power distribution.

Key Advantages:

- ◇ Space-Efficient Design: Occupies only 1/10 to 1/5 the footprint of conventional substations, significantly reducing construction time and costs.
- ◇ Safety & Reliability: Fully sealed structure supporting ring main, dual-power, and other configurations. Easy maintenance with minimal downtime.
- ◇ Flexible Adaptability: Mobile design suitable for grid modernization projects in urban and rural areas.

Product model definition



Operating conditions

1. Temperature: -25°C to +40°C
 2. Altitude: ≤1000m
 3. Relative Humidity: Daily avg. ≤95%, Monthly avg. ≤90%
 4. Seismic Resistance: Horizontal acceleration 0.4m/s², Vertical acceleration 0.15m/s²
 5. Installation Environment: Free from severe shocks, pollution, chemical corrosion, conductive dust, or explosive hazards.
- Note: Special requirements should be negotiated with our technical team during order placement.

Structural features

Modular Three-Compartment Design

- ◇ HV Compartment: Integrates ring main/terminal/dual-power solutions with optional HV metering. Configurable for diverse grid connections.
- ◇ Transformer Compartment: Accommodates S9/SC series low-loss oil-immersed/dry transformers with rail-mounted options for easy maintenance.
- ◇ LV Compartment: Customizable panel/rack configurations with integrated power distribution, lighting control, reactive power compensation, and energy metering.

Safety & Accessibility

- ◇ HV Operation Safety: Compact layout with full-function anti-misoperation interlocks and high-reliability switching devices (circuit breakers/load switches).
- ◇ Maintenance Efficiency: Dual-side access doors with automatic lighting in transformer compartment. Quick-access design for HV/LV components.
- ◇ Operational Monitoring: Independent temperature-controlled ventilation in each compartment. Exhaust fans activate/deactivate based on preset temperatures to ensure thermal stability.

Environmental Adaptability

- ◇ Enclosure Protection: Composite color steel structure with corrosion resistance, thermal insulation, and IP54-rated waterproof/dustproof performance for long-term outdoor use.
- ◇ Ventilation & Cooling: Combination of natural and forced ventilation with dedicated air ducts in all compartments to ensure reliable operation of transformers and components.
- ◇ Durability: UV-resistant surface treatment, aesthetic design, and ≥20-year service life, minimizing lifecycle maintenance costs.



YBW-12/0.4 Series

Technical specifications

Items	Unit	HV electrical equipments	Transformer	LV electrical equipments
Rated voltage	kV	10	10/0.4	0.4
Rated current	A	630		100~2500
Rated frequency	Hz	50	50	50
Rated capacity	kVA		100~1250	
Rated thermal stable current	kA	20/45		30/15
Rated dynamic stable current (peak value)	kA	50		63
Rated making short-circuit current (peak value)	kA	50		15~30
Rated breaking short-circuit current	kA	31.5(Fuse)		
Rated breaking load current	A	630		
1 min power frequency withstand voltage	kA	Phase-to-ground & phase-to-phase: 42, between breaks: 48	35/28(5mIn)	2.0/2.5
Lightning impulse withstand voltage	kA	Phase-to-ground & phase-to-phase: 75, between breaks: 85	75	
Enclosure protection grade		IP33/IP23 (Transformer enclosure)		
Noise level	dB		Oil type s55, Dry type s65	
Number of circuits	Nos	1~6	2	4~30
Maximum reactive power compensation on LV side	KVAR			300



YBW-12/0.4 Series

Layout and Dimensions

The YBW series prefabricated substations are arranged in two configurations:
 Horizontal Triptych Layout (Fig.1-1, Fig.1-2)
 Triangular Pyramid Layout (Fig.1-3, Fig.1-4)



Fig. 1-1



Fig. 1-2



Fig. 1-3

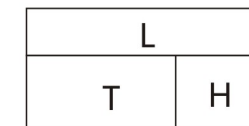


Fig. 1-4

H-LV chamber T-Transformer chamber L-LV chamber

Horizontal Triptych Layout

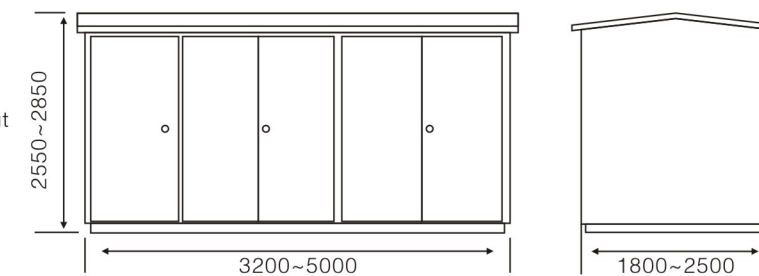


Fig2

Triangular Pyramid Layout

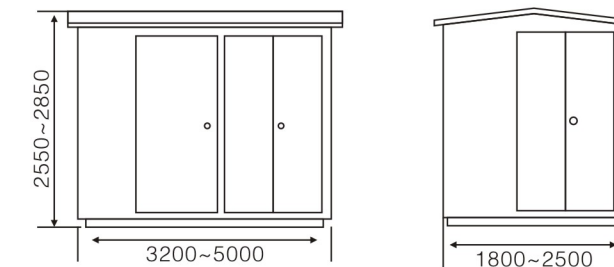


Fig3

Ordering Instructions

1. Type of prefabricated substation
2. Transformer model and capacity
3. Main wiring diagrams for HV and LV circuits
4. Model and parameters of special electrical components (if required)
5. Enclosure color
6. Spare parts requirements

Combined substation (American type)

ZGS Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Combined substation (American type)

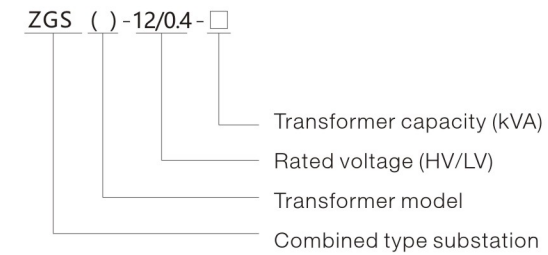
ZGS Series

Product overview

Designed for 7.2/12kV ring main, dual-power, and terminal power supply systems, integrating HV power distribution, metering, compensation, and protection functions. The HV side features multi-position load switches and fuses, while the LV side supports customized power distribution modules (control devices, reactive power compensation, and energy metering).

The equipment supports indoor/outdoor installation, widely applied in industrial parks, commercial centers, high-rise buildings, and other scenarios.

Product model definition



Features

1. About 1/3 volume of similar European-style substations.
2. No insulation clearances needed, ensures personal safety.
3. Suitable for both ring main and terminal systems with easy conversion, enhancing power supply reliability.
4. Lower than S9 transformer losses.
5. Operable at 200A load current, functioning as load switches in emergencies with isolation switch features.
6. Thermal-magnetic plug-in fuses reduce costs.
7. High voltage quality, neutral stability, non-heating enclosure, low noise, and good lightning protection.

Operating conditions

1. Altitude: ≤ 1000m (special design required for higher altitudes)
2. Wind Pressure: ≤ 10Pa (equivalent to 35m/s)
3. Humidity: Daily avg. ≤ 95%, monthly avg. ≤ 90%
4. Temperature: -25°C to +40°C
5. Vibration Resistance: Horizontal acceleration 0.4m/s²; vertical acceleration 0.15m/s²
6. Seismic Intensity: 8 degrees
7. Installation Inclination: ≤ 3°
8. Environmental Requirements: Free from corrosive/flammable gases, water vapor pollution; no severe vibration at installation site.

Technical specifications

Items	Unit	Data
Rated voltage	kV	10/0.4 (HV/LV)
Maximum operating voltage	kV	12 (HV)
Rated frequency	Hz	50
Rated capacity	kVA	50-1600
1 min power frequency withstand voltage	kV	35
Lightning impulse withstand voltage	kV	50
Cooling method		ONAN
High voltage backup fuse breaking current	kA	50
Plug-in fuse breaking current	kA	25
Ambient temperature	°C	-35~+40
Allowable temperature rise of coil	°C	65
No-load voltage regulation		± 5% or ± 2×2.5%
Noise level	dB	50
Protection level		IP43

Note: The above data is subject to change due to technical improvement.

Landscape type underground prefabricated substation

YBD Series



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Efficient Manufacturing



Flexible Configuration



Landscape type underground prefabricated substation

YBD Series

Product overview

Composed of underground combined transformers, outdoor LV cabinets, light-box style LV protection enclosures, and precast underground transformer foundations, this fully preassembled underground power distribution system is factory-integrated for turnkey installation.

Designed as a next-generation solution to replace traditional civil-construction substations, European-style prefab substations, and American-style pad-mounted transformers, it integrates power transformation and distribution functions in a single modular system.

Operating conditions

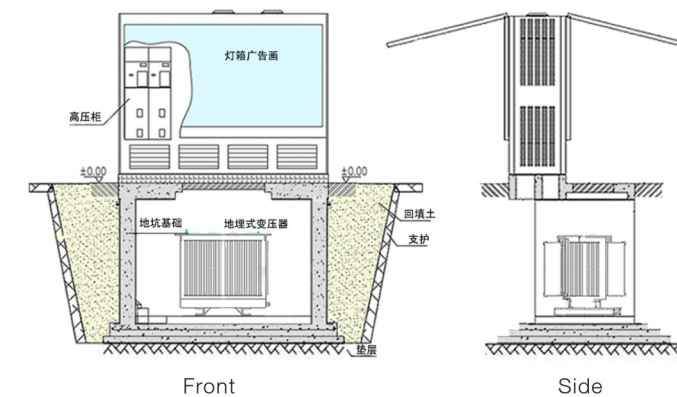
1. Altitude: $\leq 1000\text{m}$.
2. Ambient Temperature: $-40^{\circ}\text{C} \sim +40^{\circ}\text{C}$; Max monthly average: $+30^{\circ}\text{C}$; Max annual average: $+20^{\circ}\text{C}$.
3. Installation Environment:
 - ◇ Free from explosive/corrosive liquids, gases, and dust;
 - ◇ No severe vibration or impact at the installation site;
 - ◇ Permitted to operate partially or fully submerged in water for limited periods.
4. Ground Acceleration (Seismic): Horizontal: $<3\text{m/s}^2$; Vertical: $<1.5\text{m/s}^2$.
5. Power Supply Voltage Waveform: Approximately sinusoidal.
6. Three-phase supply voltages shall be roughly symmetrical.

Technical specifications

Items	Unit	HV electrical equipment	Transformer	LV electrical equipment
Rated Voltage	kV	10		0.4
Maximum Working Voltage	kV	12		
Rated Capacity	kVA		30-1600	
Rated Current (Component)	A	5-630		50-3200
Short-time Withstand Time	kA	12.5, 16, 20		15-75
Rated Short-circuit Withstand Time	S	2		1
Peak Withstand Current	kA	20/31.5/4		30-165
Power Frequency Withstand Voltage (1 min)	kV	42	35	5
Lightning Impulse Withstand Voltage	kV	75	75	
Rated Breaking Current of High-voltage Current-limiting Fuse	kA	31.5		
Noise Level	dB		≤ 48	
Rated Frequency	Hz		50	

Note: The above data is subject to change due to technical improvement.

Installation diagram





Prefabricated substation (Chinese box type)

YBH Series



Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Prefabricated substation (Chinese box type)

YBH Series

Product overview

Distinct from both American and European type compact substations, the Chinese type design incorporates their advantages while avoiding drawbacks. Its unique R-method high-voltage connection, is an industry-first innovation with independent Chinese intellectual property rights, with its remarkable features: safety, reliability, convenience, and environmental friendliness.

Widely adopted in 35kV power transformation and distribution systems for photovoltaic, wind power, and other renewable energy sectors, this solution redefines industry standards through technological differentiation.

Operating conditions

1. Ambient Temperature: -25°C to +40°C
2. Altitude: ≤2000m
3. Relative Humidity: Daily average ≤95%, monthly average ≤90%
4. Seismic Resistance: Horizontal acceleration 0.4m/s², vertical acceleration 0.15m/s²
5. Installation Environment: Free from severe shocks, heavy pollution, chemical corrosion, conductive dust, or explosive hazards.

Technical specifications

Items	Unit	HV electrical equipment	Transformer	LV electrical equipment
Rated voltage	kV	6/10/35	6/0.4, 10/0.4	0.4
Rated capacity	kVA		50~6300	
Rated current	A	200、400、630		100~3200
Rated short-circuit breaking current	A	Load switch:400-600		15~63kA
	kA	Combined switch: Dependent on the fuse		
Rated short-time withstand current	kA	16,20(4s)		15(1s)
				30(1s)
Rated peak withstand current	kA	31.5,50		30
				63
1-min power frequency withstand voltage	kV	Phase-to-ground & phase-to-phase: 32/42/95	25/35 (Oil type)	≤03, 2
		Isolating break: 36/48/118	20/28 (Dry type)	>0.3, 2.5
lightning impulse withstand voltage (peak value)	kV	Phase-to-ground & phase-to-phase: 60/75/180	60/75	
		Isolating break: 70/85/185		
Enclosure protection level			IP54	
Noise level	dB		35	

Note: The above data is subject to change due to technical improvement.

Integrated prefabricated cabin for new energy

NSYZC Series



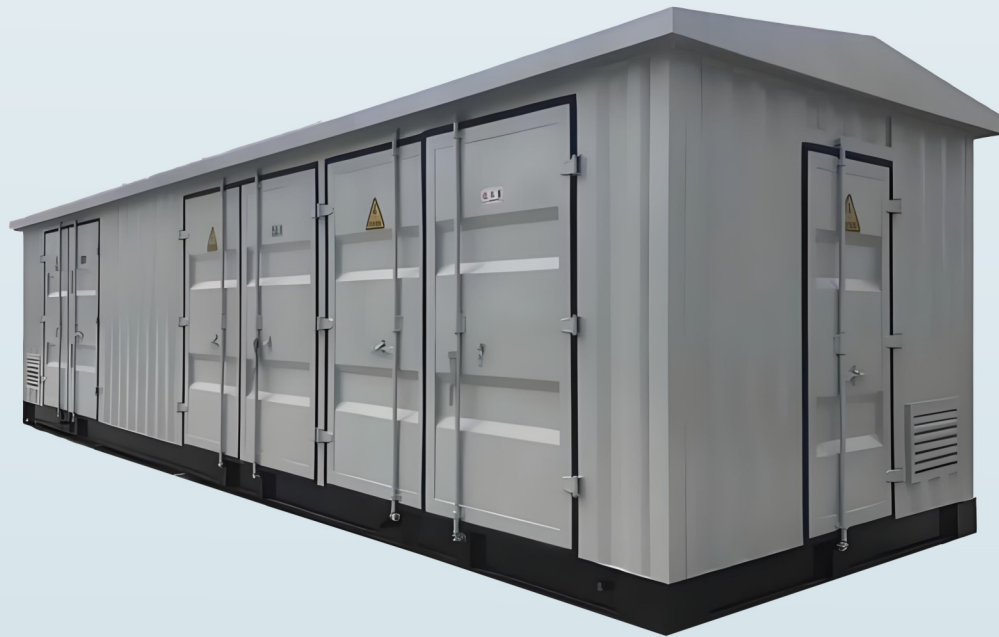
Safe & Reliable



Efficient Manufacturing



Flexible Configuration



Integrated prefabricated cabin for new energy

NSYZC Series

Product overview

Modular design integrates solar/wind power, energy storage, and intelligent monitoring in high-strength cabins. Enables rapid deployment, flexible configuration, and efficient new energy integration for clean power supply.

- ◇ **Plug-and-Play:** Prefabricated modules minimize on-site work, shortening deployment cycles.
- ◇ **Multi-Scenario Compatibility:** Suits residential areas, industrial parks, and off-grid locations, supports standalone or grid-connected operation.
- ◇ **Intelligent Energy Management:** Integrates storage & monitoring to optimize scheduling, enhancing reliability and renewable energy efficiency.
- ◇ **Durable & Eco-Friendly:** High-strength cabins withstand harsh environments, accelerating low-carbon energy transition.

Operating conditions

1. Altitude: ≤3000m
2. Ambient Temperature: -45°C to +45°C
3. Environmental Humidity: Daily average relative humidity ≤60%, monthly average ≤90%
4. Installation Site: Free from fire, explosion hazards, chemical corrosion, and severe vibration.

Main materials of prefabricated cabin (Taking 20FT standard container as an example)

Items	Configuration	Description
Underframe Assembly	Crossbeam	4mm thickness; (quantity subject to container length)
	Side Beam / longitudinal beam	16/18/20# channel steel or 160×80×4 mm rectangular tube
	Bottom plate	3mm/5mm flat plate
Front enclosure assembly	Front enclosure column	6mm bent part (same structure as container column)
	Roof beam	60×3 mm rectangular tube (same as container roof beam)
	Underframe beam	16# channel steel
	Front wall panel	1.6/2mm figure-eight plate (same as container front wall panel)
Rear enclosure assembly	Rear enclosure column	6mm bent part (same structure as container rear column)
	Rear enclosure top beam	Rectangular tube or equivalent structural components
	Rear enclosure bottom beam	16# channel steel or equivalent structural components
Container door panel assembly	Rear door frame	100×50 mm rectangular tube for frame; top/bottom 3mm bent edges
	Rear door panel	2mm thickness, 36-type (3-wave corrugated plate)
	Rear door seal	EPDM waterproof seal strip
	Door lock	Lock rod, galvanized container lock rod
Left/Right side assembly	Left side top beam	60/80×3 mm rectangular tube (same as container roof beam)
	Side panel	1.6mm side corrugated plate, 36-type (5-wave) for container
Roof assembly	Roof panel	2mm roof corrugated plate, 5-wave for container
	Reinforcing beam	60×3 mm rectangular tube