



SHENYANG LANYING COLORED STEEL CO., LTD  
LIAONING TIANYING STEEL STRUCTURE ENGINEERING CO., LTD  
**Product Overview**

Tianying Group Headquarters:  
SHENYANG LANYING COLORED STEEL CO., LTD  
LIAONING TIANYING STEEL STRUCTURE ENGINEERING  
CO., LTD

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[www.tianyingsteelstructure.com](http://www.tianyingsteelstructure.com)



YOUR GLOBAL PARTNER FOR BUILDING







QUALITY ASSURED

Tianying Group is a recognized giant in manufacturing prefabricated structure steel, steel sheets, steel coil, prefabricated house and sandwich panels.

Tianying Group has developed products and services now reaching across the globe and serving multiple industries. The Tianying group consists of Shenyang Lanying Colored Steel Co., Ltd, Liaoning Tianying Steel Structure Engineering Co., Ltd and Shenyang Lanying Hongkong Limited. With more than 400 employees, we are able to deliver quality products on time at a fair price and serving customers from over 120 countries.

Customer satisfaction is Tianying people's ultimate pursuit. Sustainability is at the very heart of what we do and we are dedicated to managing our operations responsibly and to continuously improve our performance.

Our job is to provide you a strong building with material in superior quality.

## Our Vision

To be the world's most reliable and innovative manufacturer, service and solution provider in the steel and construction industry.

## Our Mission

To supply high-quality steel products, providing related services and solutions to a worldwide client base while utilizing innovative technologies within an environment of motivated employees, focused on continuous improvement, highest business standards, work ethics, and added value for our customers.



AUTODESK  
AUTOCAD

PKPM 2010

3D3S

SAP 2000

Tekla<sup>®</sup>  
Structures



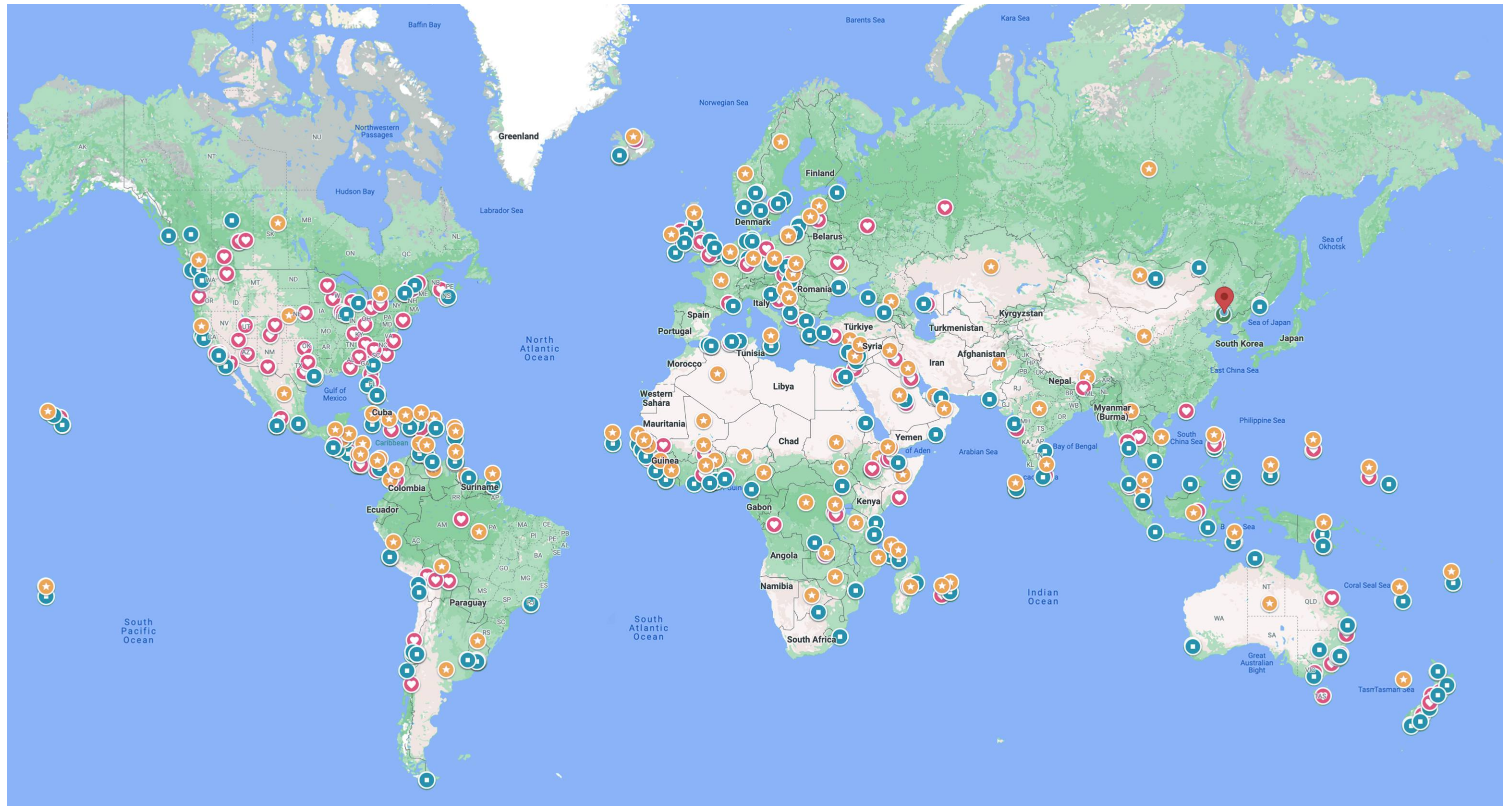
3DS MAX

Our company's typical steel structure projects are the primary steel frames for wood and paper processing industry, power plants, ship yards, industrial buildings, business centers, office and residential buildings, sport and airport hangars as well as primary steel structures for road, water crossings and pedestrian bridges. The claddings and erection works are often included in the scope of delivery.





# Tianying Group Projects Around the World



- ★ Countries we exported to
- Seaports and inland ports we shipped to

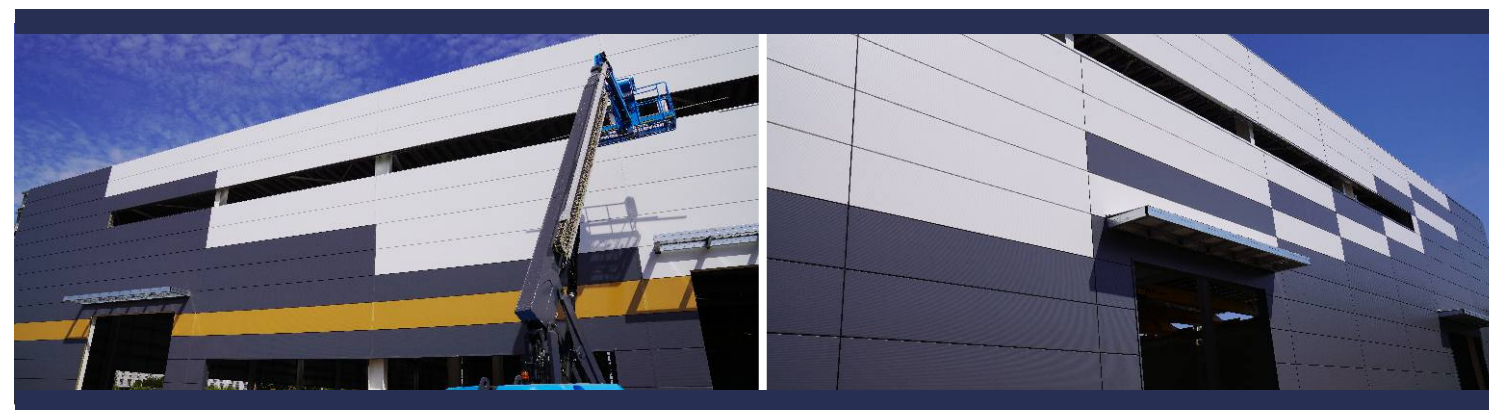
- ♥ Our project location
- 📌 Our location



# Our Office Building and Office Area



# Steel Building Fabrication Workshop





Basic Building Parameters We Take into Consideration

Building Width:

No matter what primary framing system is used, the building width is defined as the distance from outside of eave strut of one sidewall to outside of eave strut of the opposite sidewall. Building width does not include the width of Lean-To buildings or roof extensions.

Building Height:

Building height is the eave height which usually is the distance from the bottom of the main frame column base plate to the top outer point of the eave strut. When columns are recessed or elevated from finished floor, eave height is the distance from finished floor level to top of eave strut.

End Bay Length:

The distance from outside of the outer flange of end wall columns to center line of the first interior frame column.

Design Loads:

Design for snow loads, earth quake loads, collateral loads, crane loads or any other loading condition, if required must be specified at the time of request for quotation.

Building Length:

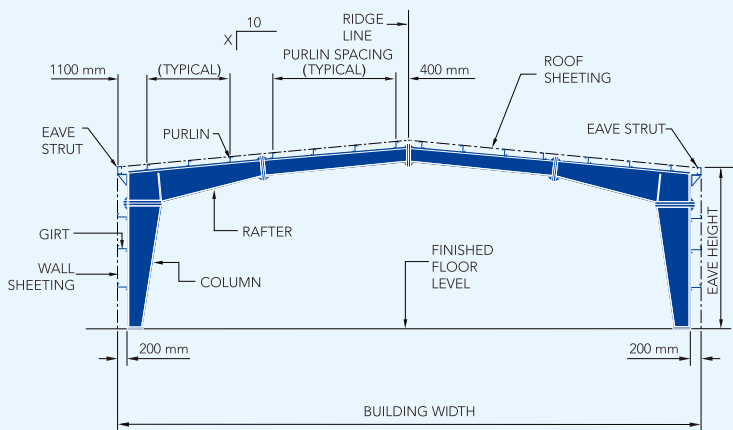
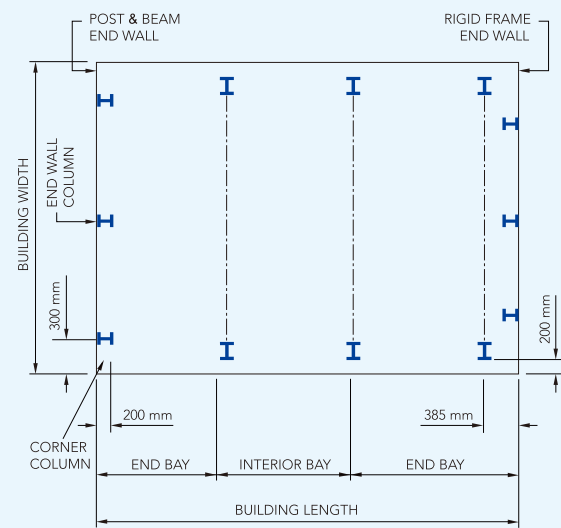
The longitudinal length of the building measured from out to out of end wall steel lines.

Roof Slope (x/10):

This is the angle of the roof with respect to the horizontal. The most common roof slopes are 0.5/10 and 1/10. Any practical roof slope is possible.

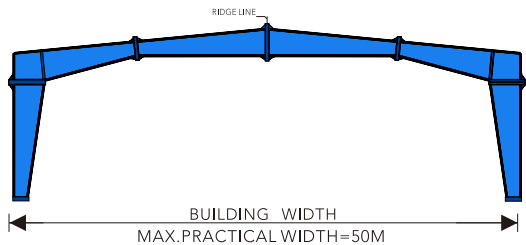
Interior Bay Length:

The distance between the center lines of two adjacent interior main frame columns. The most common bay lengths are 6 m, 7.5 m and 9 m.

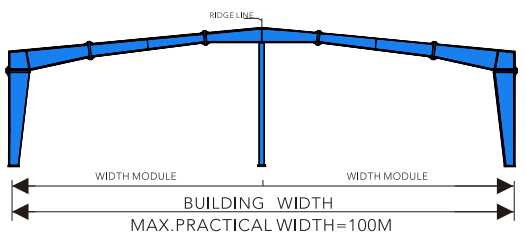


Primary Framing Systems

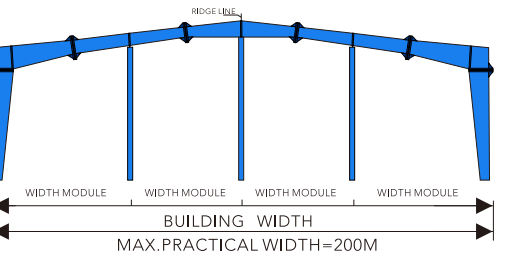
Clear Span



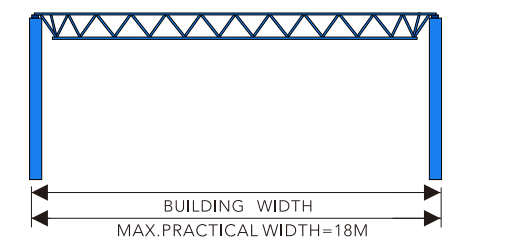
Multi-Span "1"



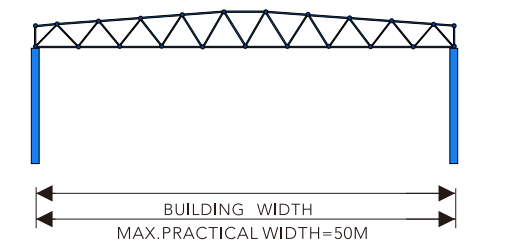
Multi-Span "2"



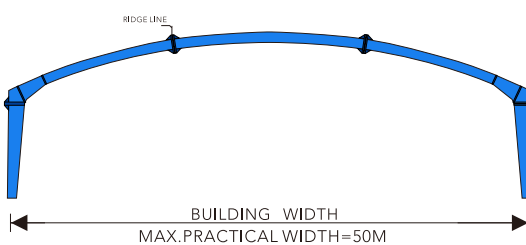
K-series Truss



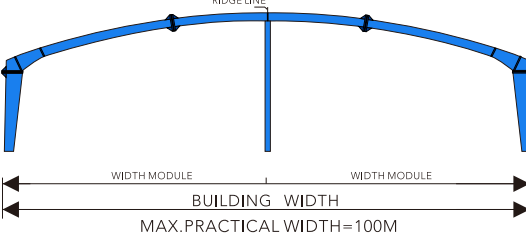
Grid Structure



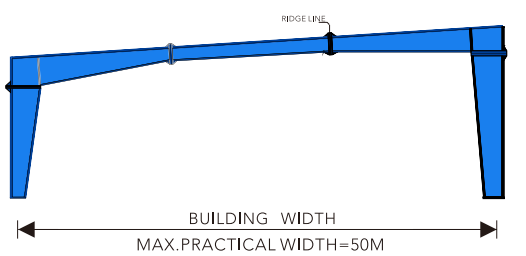
Arched Clear-Span



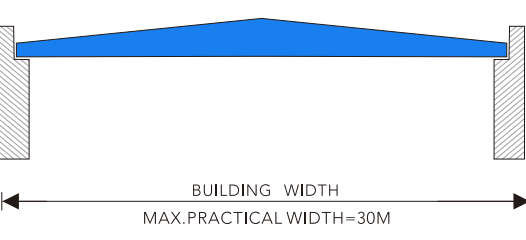
Arched Multi-Span



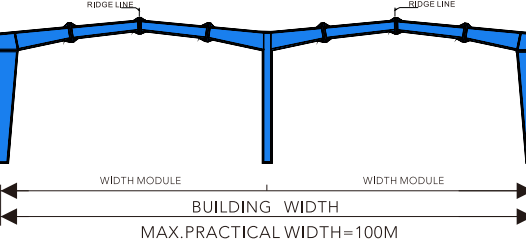
Single Slope



Roof System



Multi-Gable





PRODUCT DESCRIPTION & FEATURES  
Wall panels

		Insulation core	Longitudinal joint information	K (W/mk)	U (W/m²k)	D (mm)	Fire resistance class
<b>W-RW950/1150</b> • Visably mounted		Rockwool		0.036	0.72	50	A1
<b>W-RWZ950/1000</b> • Visably mounted • Zlock connection					0.48	75	
					0.36	100	
<b>W-RWZ1000H</b> • Hidden screw mounted				0.24		150	
<b>W-EPS950/1150</b> • Visably mounted		EPS		0.042	0.84	50	B2
					0.56	75	
<b>W-EPSZ950/1000/1150</b> • Visably mounted • Zlock connection					0.42	100	
					0.28	150	
<b>CR-EPS950/1150</b> • Visably mounted • Clean room				0.84		50	
				0.42		100	
<b>W-PU1000C</b> • Visably mounted • Ideal for cold room		PUR or PIR		0.022	0.73 0.44 0.29 0.22	30 50 75 100	B1
<b>W-PU1000H</b> Hidden screw mounted					0.18 0.15 0.13 0.11	125 150 175 200	

PRODUCT DESCRIPTION & FEATURES  
Roof panels

		Insulation core	Longitudinal joint information	K (W/mk)	U (W/m²k)	D (mm)	Fire resistance class
<b>R-RW960H</b> • Hidden screw mounted		Rockwool		0.036	0.72	50	A1
<b>R-RWZ950</b> • Hidden screw mounted • Zlock connection					0.48	75	
					0.36	100	
		0.30	120				
					0.24	150	
<b>R-EPS960</b> • Overlap mounted		EPS		0.042			B2
<b>R-EPS960H</b> • Hidden screw mounted					0.84	50	
					0.56	75	
		0.42	100				
					0.28	150	
<b>R-EPSZ950</b> • Hidden screw mounted • Zlock connection							
<b>R-PU1000H</b> • Overlap mounted • Hidden screw mounted							
		PUR or PIR		0.022	0.73	30	B1
				0.44	50		
				0.29	75		
				0.22	100		
				0.15	150		
				0.11	200		

Please consult Tianying Group for more steel and insulation core thicknesses.



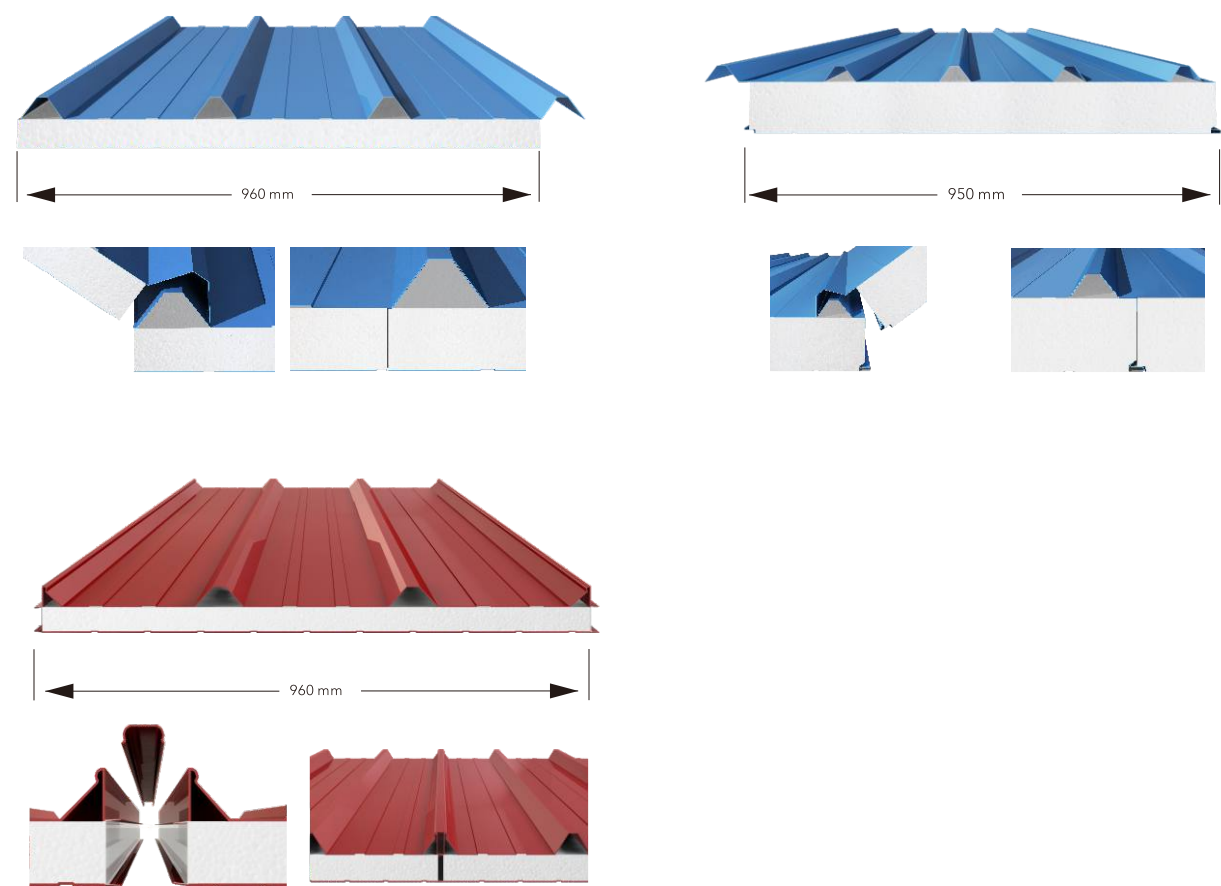
PRODUCT DESCRIPTION & FEATURES  
EPS wall panel - W-EPS950/1000/1150



Product Specification

Panel Thickness	50, 75, 100, 150 mm
R-Value	1.2, 1.8, 2.4, 3.6 m²k/W
EPS Density	8 kg/m³ - 12 kg/m³
Panel Cover Width	950 or 1000 or 1150 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	Zlock tongue and groove with hidden screw

PRODUCT DESCRIPTION & FEATURES  
EPS roof panel - R-EPS960/950

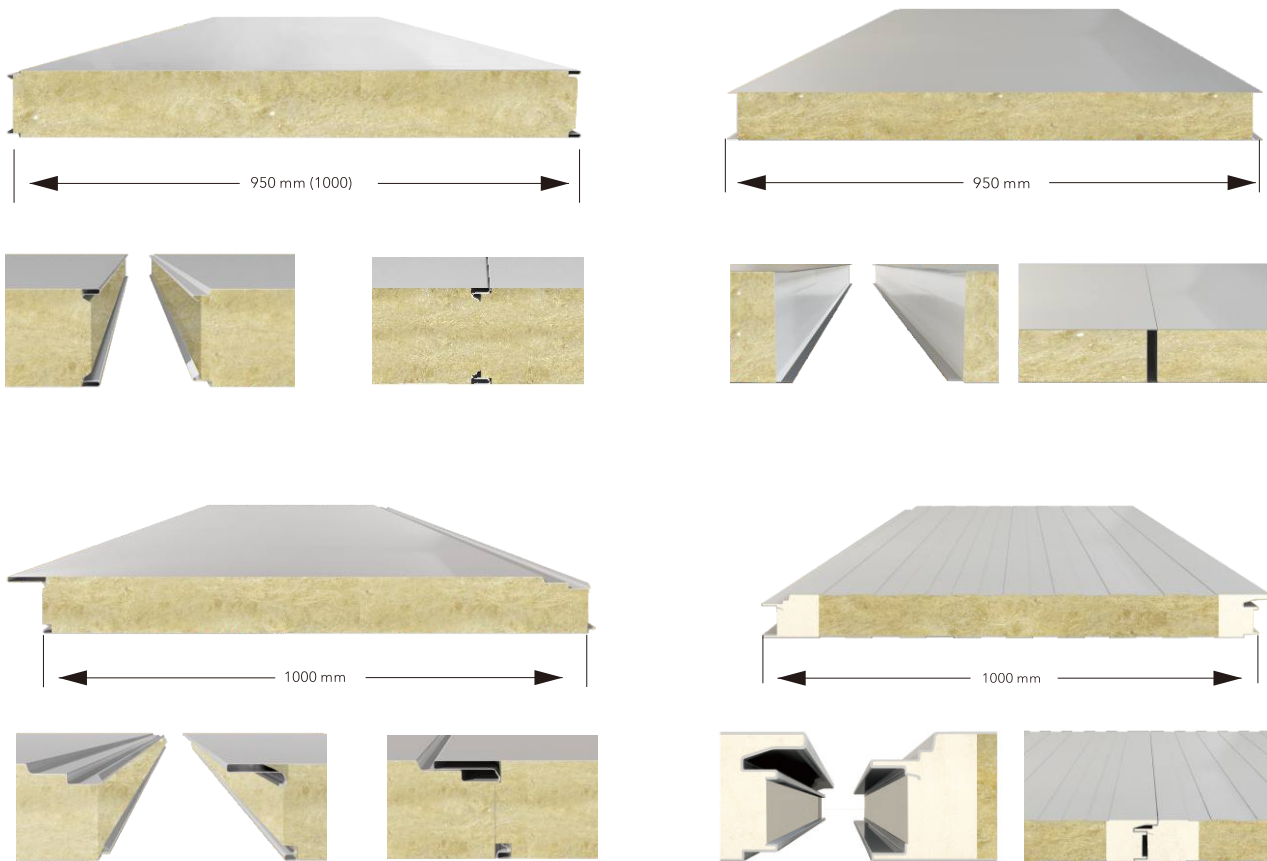


Product Specification

Panel Thickness	50, 75, 100, 150 mm
R-Value	1.2, 1.8, 2.4, 3.6 m²k/W
EPS Density	12 kg/m³ - 22 kg/m³
Panel Cover Width	950 or 960 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	Zlock and overlapping and hidden screw with snap on cap



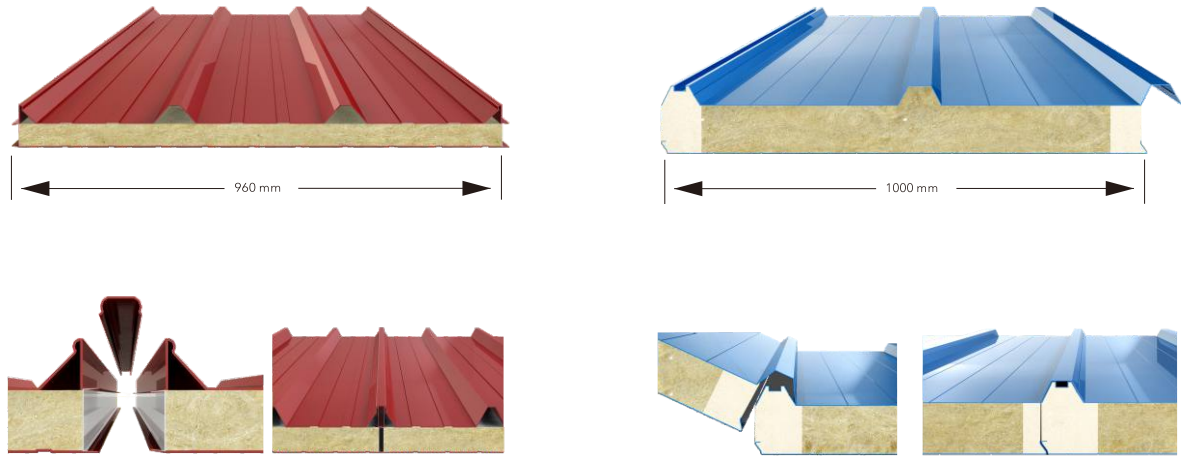
PRODUCT DESCRIPTION & FEATURES  
Rockwool wall panel - W-RW950/1000



Product Specification

Panel Thickness	50, 75, 100, 150, 200 mm
R-Value	1.4, 2.1, 2.8, 4.2, 5.6 m²k/W
Density	Rockwool:80 kg/m³ - 120 kg/m³, PU:40 kg/m³
Panel Cover Width	950 or 1000 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	Zlock tongue and PU edge tongue and groove with hidden screw

PRODUCT DESCRIPTION & FEATURES  
Rockwool roof panel - R-RW950/1000

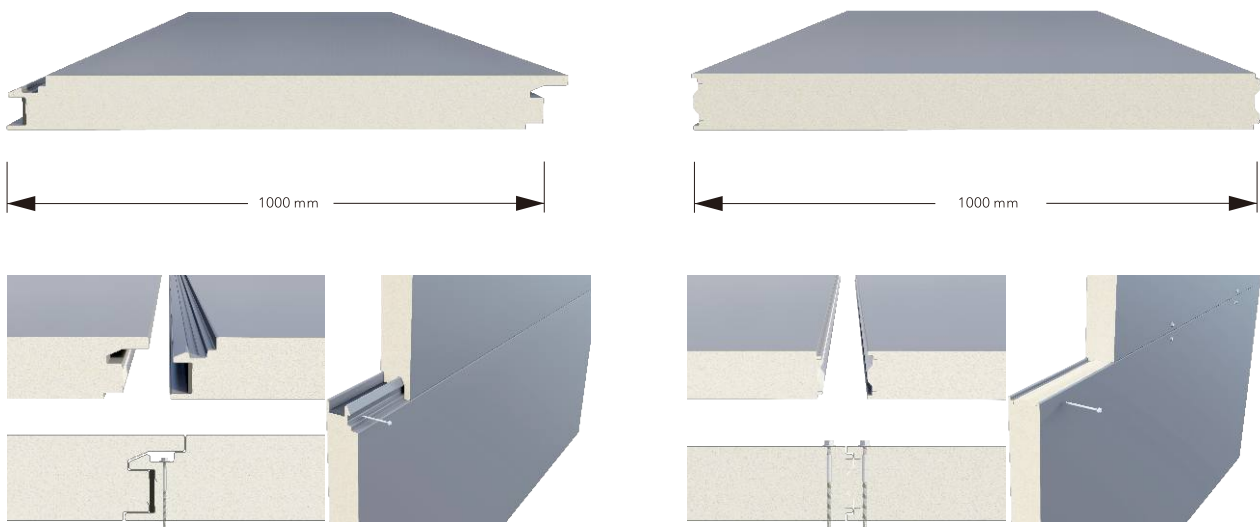


Product Specification

Panel Thickness	50, 75, 100, 150 mm
R-Value	1.4, 2.1, 2.8, 4.2 m²k/W
Density	Rockwool:80 kg/m³ - 120 kg/m³, PU:40 kg/m³
Panel Cover Width	960 or 1000 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	PU edge overlapping with hidden screw



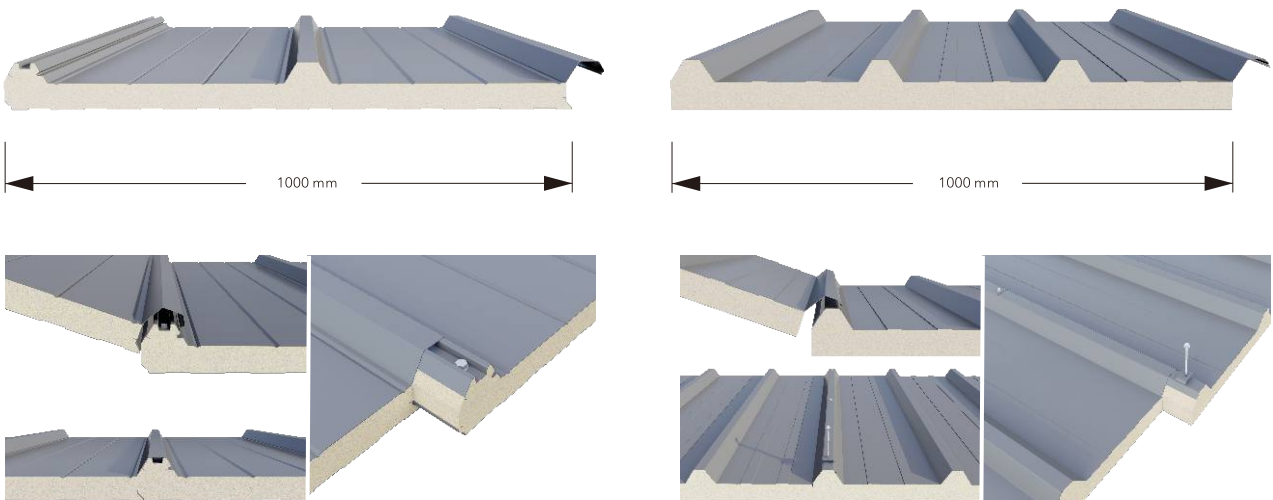
PRODUCT DESCRIPTION & FEATURES  
PU wall panel - W-PU1000



Product Specification

Panel Thickness	30, 50, 75, 100, 150, 200 mm
R-Value	1.4, 2.3, 3.4, 4.5, 6.7, 9.1 m²k/W
PU Density	40 kg/m³
Panel Cover Width	1000 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	Double tongue and groove

PRODUCT DESCRIPTION & FEATURES  
PU roof panel - R-PU1000


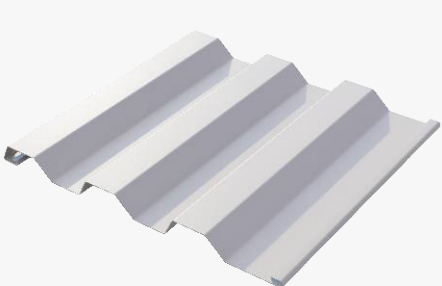

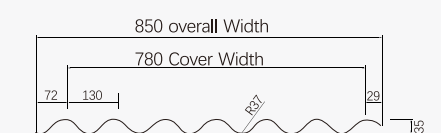

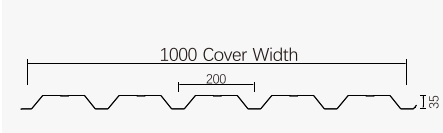


Product Specification


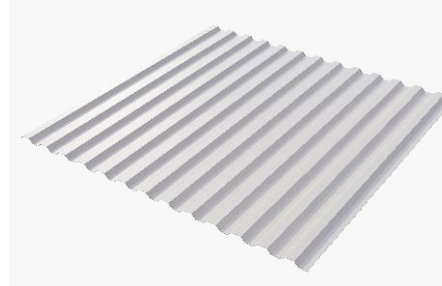


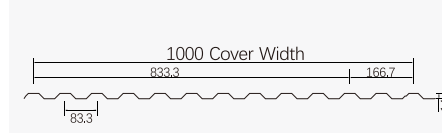
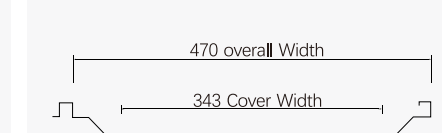
Panel Thickness	30, 50, 75, 100, 150, 200 mm
R-Value	1.4, 2.3, 3.4, 4.5, 6.7, 9.1 m²k/W
PU Density	40 kg/m³
Panel Cover Width	1000 mm
Length	Max. 11.8 meters
Exterior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Interior Face	0.4 to 0.6mm, AZ40 Aluzinc galvanized and PE painting 20um, higher quality steel skin upon request
Color	As per RAL or customer sample
Connection	PU edge overlapping with hidden screw



# Metal Panel

MP780		MP360		MP1000	
					
					
Metal Thickness	0.4mm-0.7mm	Metal Thickness	0.5mm-0.8mm	Metal Thickness	0.5mm-0.8mm
Cover Width	780mm	Cover Width	360mm	Cover Width	1000mm
Overall Width	850mm	Overall Width	495mm	Overall Width	1200mm
Input Coil Width	1000mm	Input Coil Width	600mm	Input Coil Width	1200mm
Wave Height	35mm	Wave Height	23mm	Wave Height	35mm



MP840		MP833/1000		MP470	
					
					
Metal Thickness	0.4mm-0.7mm	Metal Thickness	0.4mm-0.5mm	Metal Thickness	0.5mm-1.0mm
Cover Width	840mm	Cover Width	833/1000mm	Cover Width	343mm
Overall Width	900mm	Overall Width	1000/1200mm	Overall Width	470mm
Input Coil Width	1000mm	Input Coil Width	1000/1200mm	Input Coil Width	600mm
Wave Height	35mm	Wave Height	14mm	Wave Height	42mm



# Glass Curtain Wall

Glass curtain wall is fully transparent and all-in-view, and pursues exchange and integration between the inner and outer spaces. People could clearly see the whole structural system of the glass, so as to turn the structural system from supporting role to performance visibility and to demonstrate a sense of architectural aesthetics, type, hierarchy and space impression.



Aluminum Frame Glass Curtain Wall

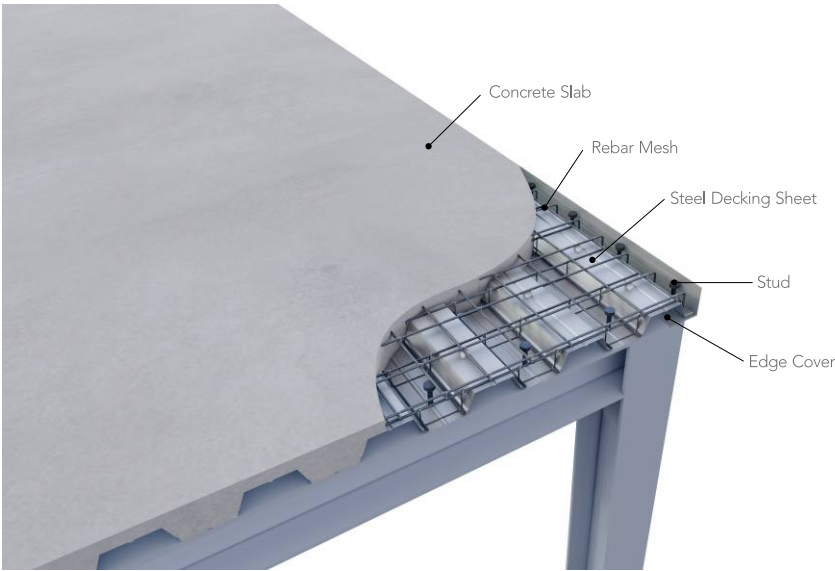


Invisible Frame Glass Curtain Wall



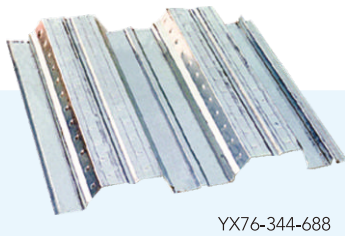
Point Supported Glass Curtain Wall

# Floor Decking

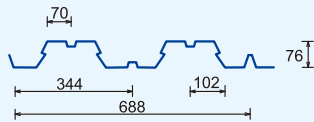


## APPLICATIONS OF DECKING SHEETS

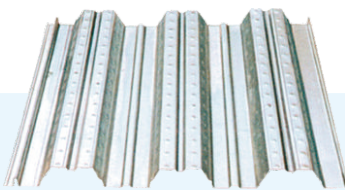
- High Rise Buildings
- Multiplexes and Commercial Buildings
- Power Plants
- Mezzanine Floors in Industrial Buildings and Warehouses
- Multi-Storeyed Industrial Building and Warehouses
- Bridges and Flyovers
- Walkways and Skywalks
- Railways Station and Airports



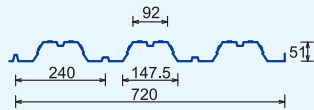
YX76-344-688



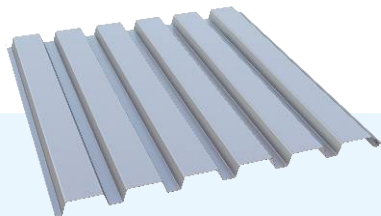
Thickness (mm)	0.7	0.8	1.0	1.2
Section of inertia cm <sup>4</sup> /m	80.19	91.62	119.38	142.01
Section of resistance cm <sup>3</sup> /m	20.53	23.46	30.61	36.98



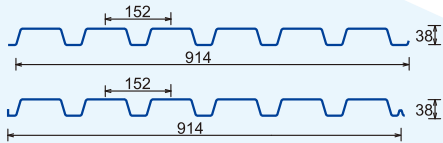
YX51-240-720



Thickness (mm)	0.6	0.7	0.8	1.0	1.2
Section of inertia cm <sup>4</sup> /m	37.27	43.47	46.69	62.11	74.53
Section of resistance cm <sup>3</sup> /m	12.29	14.34	16.39	20.48	24.59



YX38-152-914 (D36)



Thickness (mm)	0.8	1.0	1.2
Section of inertia cm <sup>4</sup> /m	8.87	11.21	13.42
Section of resistance cm <sup>3</sup> /m	9.59	13.56	16.61



# 3D Rendering





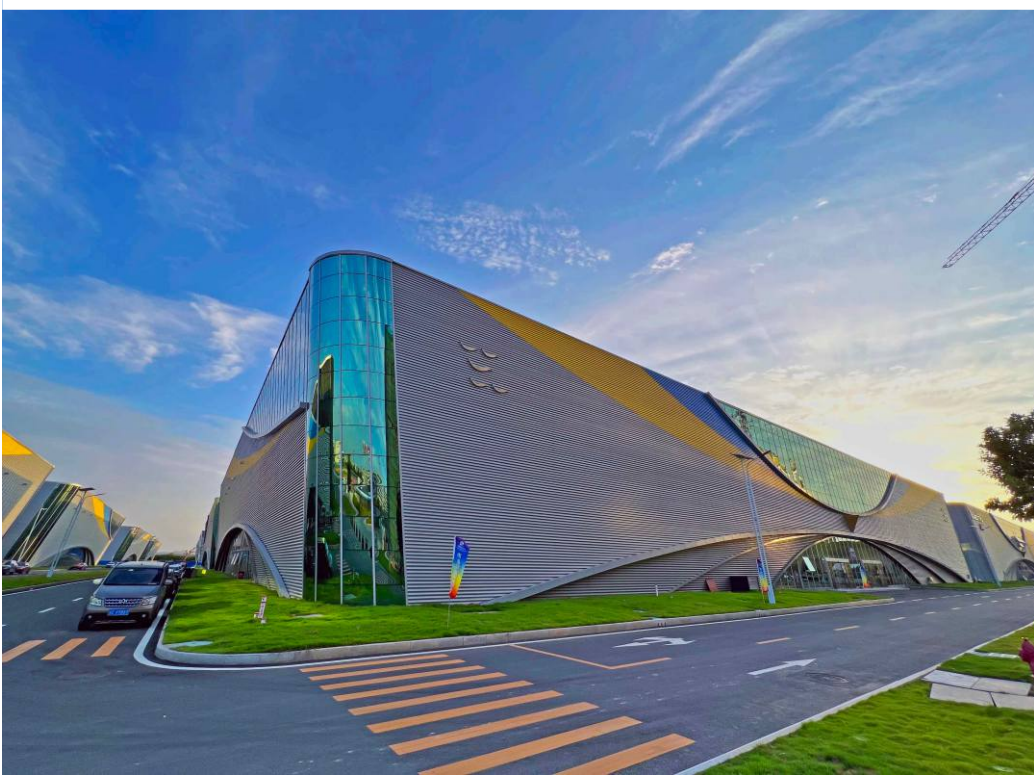
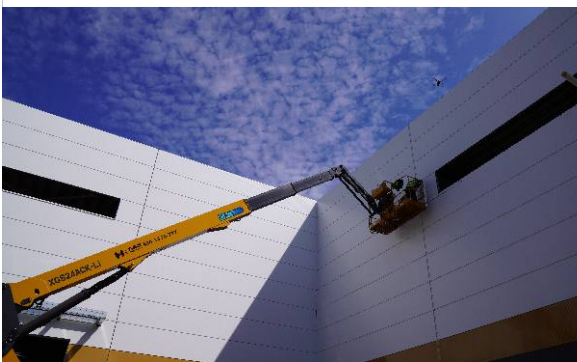
# Architect Design Capability



Lanying has experienced architects who can help you design complex buildings, such as hospitals, commercial buildings, hotels, and apartments.



# Project References





# Packing and Transportation



Loading option 1: 40'HQ container with a patent designed steel skid  
Loading option 2: 40'OT container without a steel skid

## Accessories

### Doors



Sandwich panel door



Crystal shutter door



Hangar door



Steel door



Roller shutter door



Sectional door

### Windows



PVC window



Aluminum window

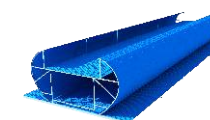


Aluminum shutter

### Ventilation



Ventilation fan



Ridge ventilator



Ventilation ball

### Dock leveler



Hydraulic lift table



Deck Leveler

### Crane



Single-girder crane



Double-girder crane



Gantry crane



Cantilever crane



# Our Customers

