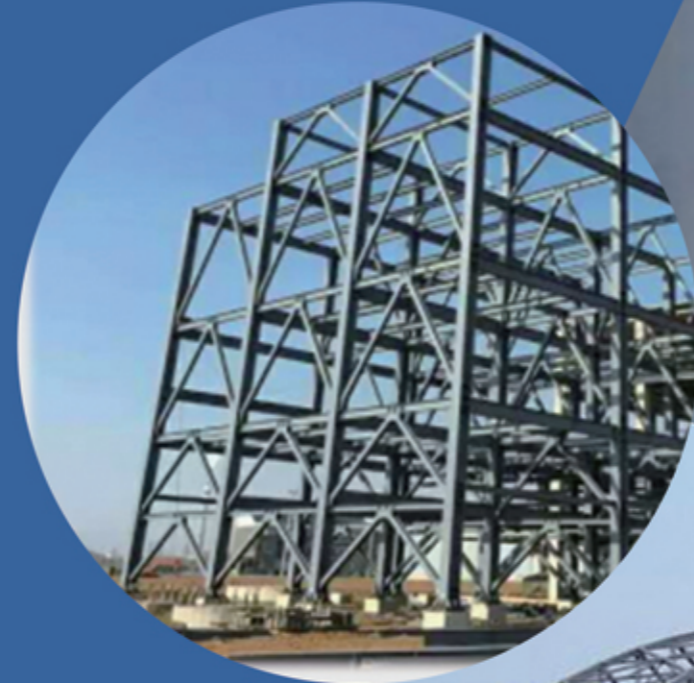




QHHK



Liaoning QHHK Construction Material Technology co.,Ltd



About QHHK

QHHK is subsidiary of ZHONGDA ENTERPRISE GROUP. The group consisting of Liaoning QHHK Construction Material Technology Co.,LTD. Shenyang Zhongda Steel Structure Engineering Co., Ltd. And Liaoning Zhongda Metal Structure Products Co. Ltd.The factory founded in 2004, covers an area of 100000m². We have more than 380 employees and an annual output of 40 thousand tons of steel construction.

QHHK is mainly responsible for the international market business. All production according to the ISO9001-2008 international quality system, with high quality to occupy the market, to win customers highly recognized.

QHHK offers the following products:

- *Welding steel structure;
- *prefabricated steel structure bridge;
- *Steel truss;
- *Welding steel for equipment parts;
- *Pre-engineered building;
- *C & Z profile;
- *Big steel tube;
- *Steel sheet, sandwich panels, decking panels, skylight boards;
- *Greenhouse.

QHHK also offers the following services:

- *Complete project engineering, a service which allows for total adaptability to customers needs;
- *Overseas technical instruction installation and site services;
- *Design economy, through a range of researched standardized solutions;
- *Quality guarantee.

www.prefabricatedsteelstructures.com

Contents

CONTENT
TABLE OF

About QHHK

QHHK Product Ranges

Prefabricated bridge

Industrial structures and buildings

Welding Steel for equipment parts

Pre-Engineered Building

Sheeting system

Color steel plate

Sandwich panel

Steel decking panel

FRP Sheet

Polycarbonate Sheet

Greenhouse

Glass Greenhouse

PC-sheet Greenhouse

Plastic-film Greenhouse

Tunnel Greenhouse

Project case

Advantage

Contact US



About QHHK

Factory workshop



About QHHK

QHHK Equipment show



Cutting machine



115mm rolling and 120mm bending machine



Shot-blasting machine



Assembling machine



Drassing machine



Universal horizontal CNC drilling machine



Four column hydraulic machine gravity



About QHHK

QHHK Equipment show



Prefabricated bridge

Steel truss bridge



Bailey bridge



Steel truss arch bridge



Steel truss arch bridge



Steel Box cable-stayed bridge



Steel box girder suspension bridge





Prefabricated bridge

Bailey bridge

The Bailey bridge is a type of portable, pre-fabricated, truss bridge. It was developed by the British during World War II for the military use and now extensive use in the world.

A Bailey bridge had the advantages of requiring heavy equipment to assemble. The Steel bridge elements are small and light enough to be carried by trucks and lifted into place by hand. They are strong enough to carry heavy trucks and tanks.



Prefabricated bridge

Bailey bridge

321 Type bailey bridge(ZB 100)

"321" type bailey bridge is a rapid assembly steel bridge which was developed on the basis of the former British bailey bridge and in combination with China's practical situation. It was extensively used in national defense readiness, traffic engineering, municipal engineering and hydraulic engineering. It was the most widely used steel bridge in China.

The Specification of 200 type Bailey Bridge

Lanes	Single lane	Double	Customized
Width	4.2m	7.35m	Customized
Max. Span	30-230feet (10feet/section)	30-180feet (10feet/section)	Customized
Bridge deck	Steel	Steel	Steel
Steel Grade	Q345B		
Loading Capacity	As the requirements		
Corrosion	Original Painted or Hot Dip Galvanized		
Advantages	Lower Price/Convenient Transportation/Easy assembly and Erection		





Prefabricated bridge

Bailey bridge

200 Type bailey bridge

"200" type bailey bridge increase truss height, the bearing capacity, the fatigue life and enhance the stable performance, finally improve the reliability. Compared with the 321 steel bridge, under the condition of the same combination type, the strength increased by 33%, the stiffness increased 2.3 times.

The Specification of 200 type Bailey Bridge			
Lanes	Single lane	Double	Cultomized
Width	4.2m	7.35m	Cultomized
Max. Span	30-230feet (10feet/section)	30-180feet (10feet/section)	Cultomized
Bridge deck	Steel	Steel	Steel
Steel Grade	Q345B		
Loading Capacity	As the requirements		
Corrosion	Original Painted or Hot Dip Galcalized		
Advantages	Lower Price/Convenient Transportation/Easy asembly and Erection		



Prefabricated bridge

Bailey bridge

Bailey bridge structure type														
Term	Standard Structure type							Reinforcement structure type						
	SS	DS	DD	TS	TD	/	/	SSR	DSR	DDR	TSR	TDR	/	/
321														
200 single lane	SS	DS	DD	TS	TD	/	/	SSR	DSR	DDR	TSR	TDR	/	/
200 Dual-lane	SS	DS	DD	TS	TD	QD	QS	SSR	DSR	DDR	TSR	TDR	QDR	QSR



(DD)

(DDR)



(TD)

(TDR)



Prefabricated bridge

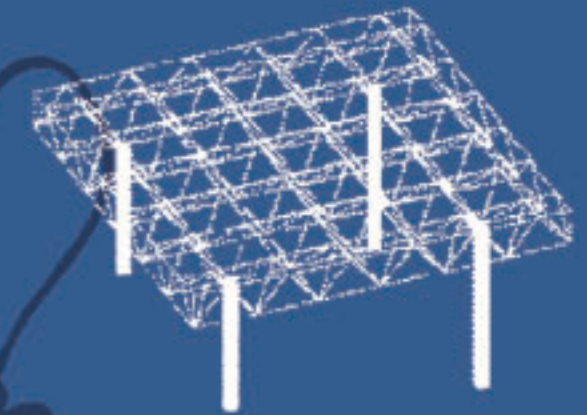
Bailey bridge

The Parts of 321/200 type Bailey bridge

			
支撑架 supporting structure	贝雷片 panel	桥墩 bearing	桥面板 steel deck
			
贝雷销 pin	螺栓 bolt	螺栓 bolt	螺栓 bolt
			
U/L 型螺栓 U/L deck bolt	横梁夹具 stransom clamp	联板 joint component	抗风拉杆 sway brace
			
加强弦杆 chord reinforcement	斜撑 supporting secure	横梁 transom	端柱 post end

Industrial Structures and buildings

Petrol station



Some steel structure for pipe line supporting



Stadium /Buildings





Welding Steel for equipment parts

Barrel fabrication



Barrel for rotary kiln



Cutterhead



Cutterhead



Crushing station



Crushing station



Welding Steel for equipment parts

Part for Stock bin



Barrel



Trailer



Shield tunneling machine



Reducer casing



Cutter



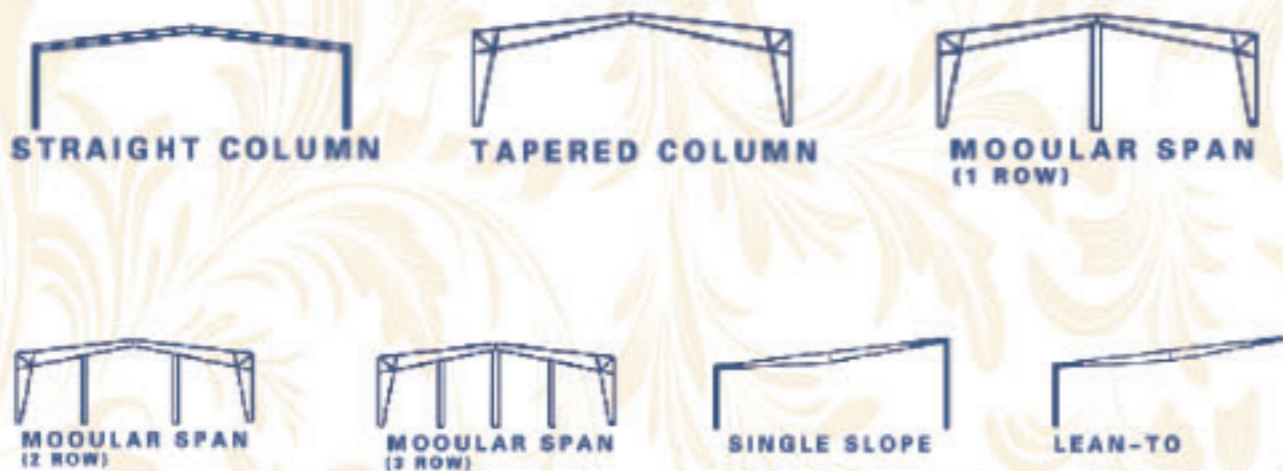


Pre-Engineered Building

QHHK offers virtually any type of structural design required (shown at below). Your building square footage, local codes and wind, rain, and seismic requirements will determine the type of structural system that will apply. Other considerations include interior space requirements where clear spans may or may not be required. Standard bay lengths are 6m, 7.5m and 9m between main frames. A variety of endwall designs are available depending upon specific building demands. Post and beam endwalls are standard optimal "rigid frame" endwall designs are also available when there may be a need to add to the building in the future or perhaps a need for a total opening such as an aircraft hangar door. Our staff of experienced professionals can be of great assistance in determining the right structure for your application.

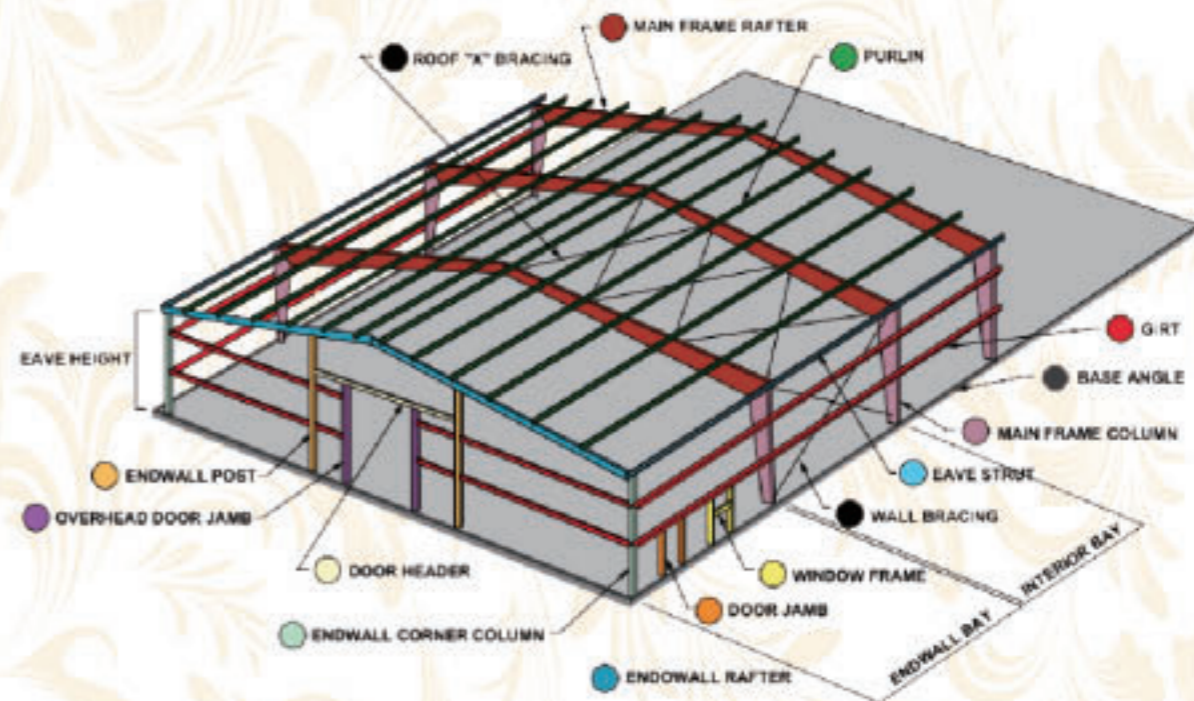
We make it easy to purchase a quality pre-engineered steel building. QHHK's building specialists can assist in taking your initial concept and developing the structural design with accessories that best accommodate your needs.

One of many standard features offered on the majority of buildings by QHHK includes the overlapping of purlins at the main beam as opposed to the flush bolting method. This technique insures greater strength and structural support. And as you will see, every aspect of a QHHK steel building is designed to meet just the right combination of quality and economy.



Pre-Engineered Building

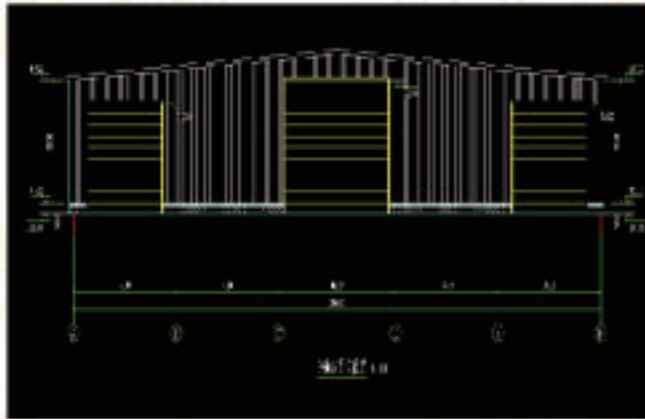
Along with your building materials and blueprints, all customers receive a construction manual. QHHK buildings feature an easy bolt-together design that many do-it-yourself buyers appreciate. QHHK's all bolt together design ensures these buildings fit the right way. QHHK is well known as having the most helpful customer service team in the industry. They will help you at every step of the way. QHHK can also provide erection service in many areas of the country.





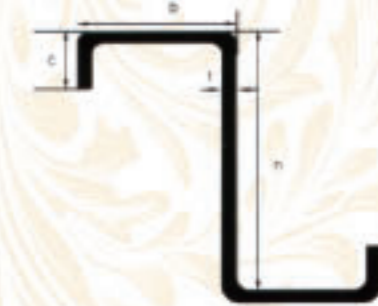
Pre-Engineered Building

Hangar



Pre-Engineered Building

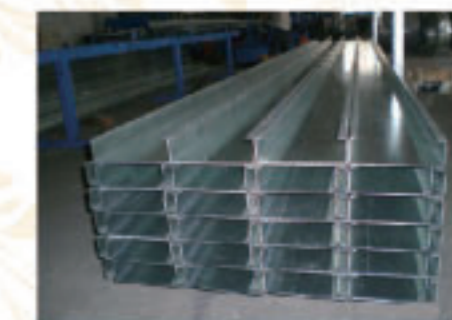
Profile steel



The new C, Z-type cold-formed steel purlins are the latest construction steel for replacing old channel steel, I-beam and angle steel. The whole light and bearing capacity is large, and some construction funds can be saved. C, Z-shaped steel is widely used in steel structure purlin, wall beams, can also be combined into a lightweight roof trusses, brackets and other building components. In addition, can also be used for mechanical light manufacturing in the column, beam and arm. Specifications from 80 mm-300mm about more than 40 specifications. Products according to customer specific requirements for punching, galvanizing, painting and so on.

C Shape profile steel general specification (mm)

H	B	C	T
80	40	20	2.0-3.0
80	50	20	2.0-3.0
100	40	20	2.0-3.0
100	50	20	2.0-3.0
120	50	20	2.0-3.0
120	60	20	2.0-3.0
140	50	20	2.0-3.0
140	60	20	2.0-3.0
160	50	20	2.0-3.0
160	60	20	2.0-3.0
160	70	20	2.0-3.0
180	60	20	2.0-3.0
180	70	20	2.0-3.0
180	80	20	2.0-3.0
200	60	20	2.0-3.0
200	70	20	2.0-3.0
200	80	20	2.0-3.0
220	60	20	2.0-3.0
220	75	20	2.0-3.0
250	75	20	2.0-3.0
300	80	20	2.0-3.0





Sheeting system

QHHK offers profile to suit structural, architectural, thermal lighting and corrosive circumstances. Structural constraints are satisfied by the range of corrugation spacing, thickness and materials available from or through QHHK.

The architectural requirements are met by the choice of shapes and sizes on offer. These extend from flat panels to deep corrugations, in natural finish or in a choice of colors which can be varied as will, although this may affect cost or delivery or both.

The thermal insulation whenever required is ensured by a selection of means such as EPS, glasswool or rockwool with a vapour barrier, or with polyurethane-injected sandwich panels. Here again, QHHK offers a broad assortment of liner options, from mere aluminum lining to corrugated metal sheets.

Lighting requirements are met with the supply of FRP sheets. The FRP are can be UV resistant for durability. The shape, surface and thickness are adjusted to match all other constraints.

QHHK also offers steel deck for steel buildings or mezzanines to suit structural specifications

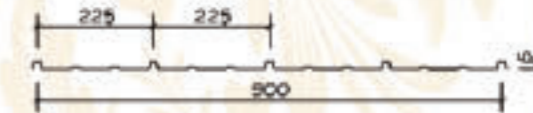
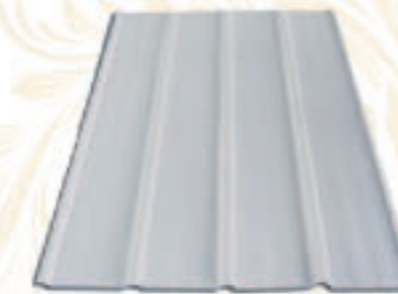


Sheeting system

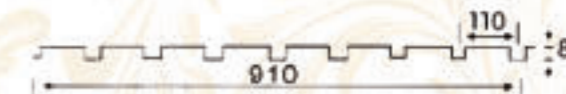
Color steel plate



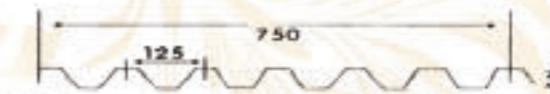
V-840 is to do the roof panel material is one of the best plate, with lines loose, beautiful appearance, practical area, small water resistance, leak-proof and so on. This plate type installation is reliable, the construction is simple, the fitting is complete, moreover may process to the fold type curved plate. Is a small roof, garage shed the best choice for materials.



V-900 is to do the wall panel, the roof, building enclosure one of the best plate. Akira has a generous appearance, concise, practical area, strong leak-proof and so on. This plate type installation is convenient, the construction is simple, can make the suitable bend. And with double-channel stiffeners, so that the strength better. Do the building enclosure style beautiful, the utilization rate is big.



V-910 is to do decorative wall panels, ceiling panels, billboards one of the best plate, with a handsome in appearance, practical area, prominent layers of prominent features. This board type installation fast, simple construction, do billboards lap tight, the overall effect is beautiful.

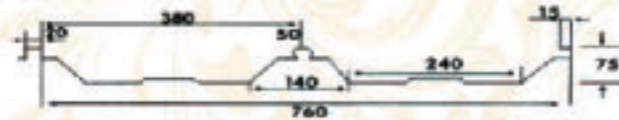


V-750-type pressure plate is a plate with more than 20 years of history, its streamlined design more aesthetics. This type of plate for large purlin distance of the grid structure, but also for light load on the floor. The depth of 35MM, under the same load conditions, can increase the purlin distance 400MM, is a better roof strength.

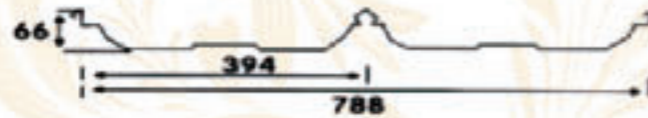


Sheeting system

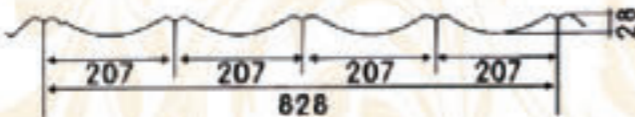
Color steel plate



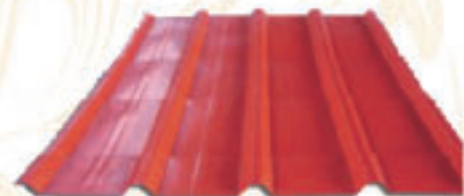
V-760 color steel plate for the occlusal roof of one of its shape design is very reasonable, with more than 10 years of domestic experience, suitable for large-span roofing system, which features a 180 degree dark button connection, strength, Flow line is good, leak-proof performance, and purlin distance with more reasonable and so on.



V-788-type color plate for the occlusal roof of one of its 360-degree double-lock volume lock button can significantly increase the airtight performance. This plate surface without self-tapping screws, using sliding bearing connection, can prevent the temperature changes caused by roof deformation deformation and destruction.



V-840 and V-828 decorative tiles, for the ancient firing of glazed tiles, it not only increased the strength of the support, reducing the project cost, and greatly reduce the weight, the installation is concerned, it assembled a combination of more freedom . The appearance is more beautiful, the construction speed is quicker. Such products can be widely used in European-style villas, tourist attractions, beach houses, resorts, garden-like factory. Home and a variety of architectural indoor and outdoor decoration.



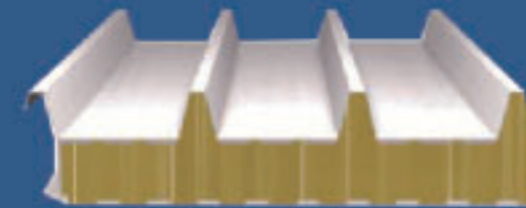
Sheeting system

Sandwich panel



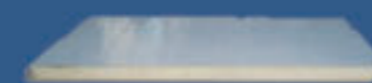
Color **Rockwool** Sandwich Panel for wall Color **Rockwool** Sandwich Panel for roof

Color Rockwool Sandwich Panel is made of rock wool, which is made up of filamentary fibers. It is made of colored steel sheet and made of common automatic continuous molding machine. It is bonded with high strength adhesive after pressing. Rock wool are non-burning body, so the fire performance is excellent. Sandwich panel thickness according to the core material 50,75,100,120,150 and so on.



Color steel **glass wool** sandwich pane

Color steel glass wool sandwich panel is the upper and lower layers of color pressure plate through the combination of keel and glass wool, divided into two types of roof panels and wall panels. Hanging glass wool sandwich panel is a stainless steel wire instead of the lower color pressure plate of a new type of insulation roofing materials. Glass wool sandwich panel has good fire performance, widely used in large public buildings, industrial plants and other buildings of the wall and roof.



Polyurethane (PU) wall Panel Polyurethane (PU) Roof Panel Polyurethane (PU) Panel

Polyurethane (PU) composite panel is made of the surface layer of color coated steel coil and the core of the foam polyurethane in the production process by a one-time composite made of polyurethane insulation board to maintain good insulation effect at the same time increase the strength of the plate, Corrosion resistance and aesthetic appearance, can be used for construction, machinery and equipment, industrial facilities and ventilation systems and other insulation purposes



Sheeting system

Sandwich panel

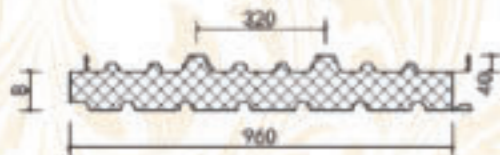


PVC color steel composite board

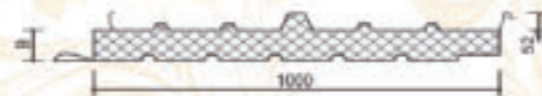
PVC color steel composite board is usually replaced with PVC material membrane of the original composite panel under the color plate, the main component of PVC PVC, polyethylene, after forming bright color, corrosion-resistant, durable, and in the manufacturing process to increase Plasticizers, anti-aging agents and other auxiliary materials to enhance its heat resistance, toughness, ductility, etc., so the products are widely used in cattle sheds, pig houses and other color steel roof construction. It is now widely used in a new synthetic materials.



Hidden type EPS sandwich Panel for roof



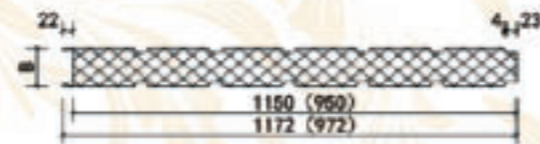
Lap type EPS sandwich Panel for roof



Splicing type EPS sandwich Panel for wall



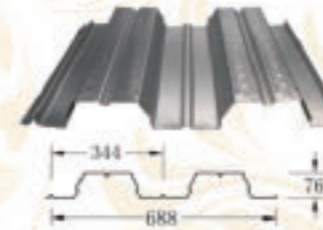
Plug-in type EPS sandwich Panel for wall



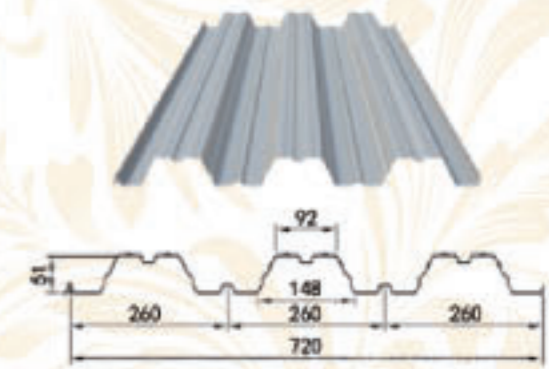
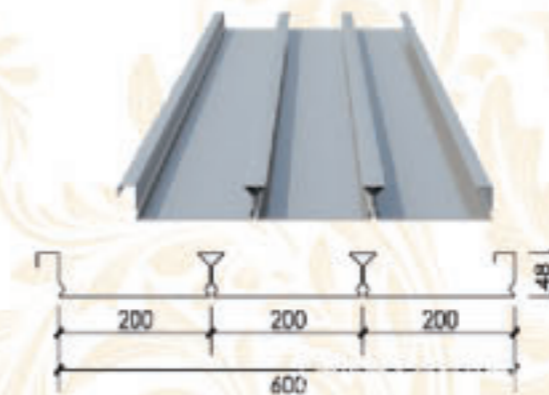
Color steel composite panel with its light weight, beautiful appearance, beautiful color, light weight, high-strength, fast installation, etc., has now become the world's most popular new composite materials.

Sheeting system

Steel decking panel



Effective width	Developed width	Wave Height	pitch of waves	Using
688 mm	1000mm	76mm	344 mm	Floor deck



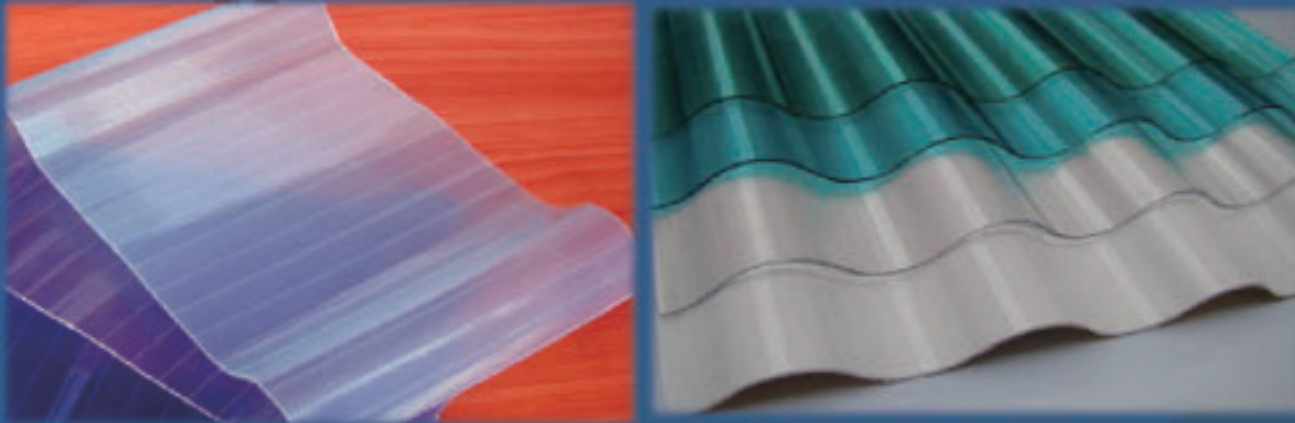
Thickness(mm)	Weight (kg/m ²)	Inertia moment (cm ⁴ /m)	Section modulus W (cm ³ /m)
0.80	10.46	43.24	12.35
0.90	11.77	49.65	13.90
1.00	13.08	54.05	15.44
1.20	15.07	64.86	18.53

Construction of the pressure plate floor plate with galvanized steel sheet by cold roll forming, the cross-section into V-shaped, U-shaped, trapezoidal or similar shape waveforms, mainly for floor boards, can also be selected for other purposes. Compressed steel plate composite floor is galvanized steel sheet (0.8-1.5 thick, galvanized amount of not less than 180g / mm²) as a template, pouring concrete on it to form a steel-concrete composite panel, for non-composite plate Should be configured with positive bending moment steel. Compressed steel plate composite floor can be doubled as a template and the use of force, factory production, assembly of construction, significant savings in duration, and high capacity, so in a variety of industrial and civil buildings has been widely used.



Sheeting system

FRP Sheet



Specification

Universal lighting board

Coating: The surface of a thin film of 20 microns.

Resin component: High quality unsaturated resin.

Reinforced Fibreglass: Quality Fiberglass min 22%.

Nominal thickness: 1.0mm 1.2mm 1.5mm 2.0mm 2.5mm tolerance +/-0.1mm

Transmittance: 1.5mm 75% light green color, 65% milky color

Thermal transmittance: 1.5mm 71% light green color, 61% milky color

Temperature limits: -30 degree centigrade to +110 degree centigrade

Thermal expansion coefficient: $2.6 \times 10^{-5} \text{cm/}^\circ\text{C}$

Anti-ultraviolet rate: more than 90%

Guarantee time: 15 years.

Physical Characteristics:

Bending strength: 120mpa

Tensile Strength: 72mpa.

Punching shear strength: 84mpa

Density: 1.42g/cm³

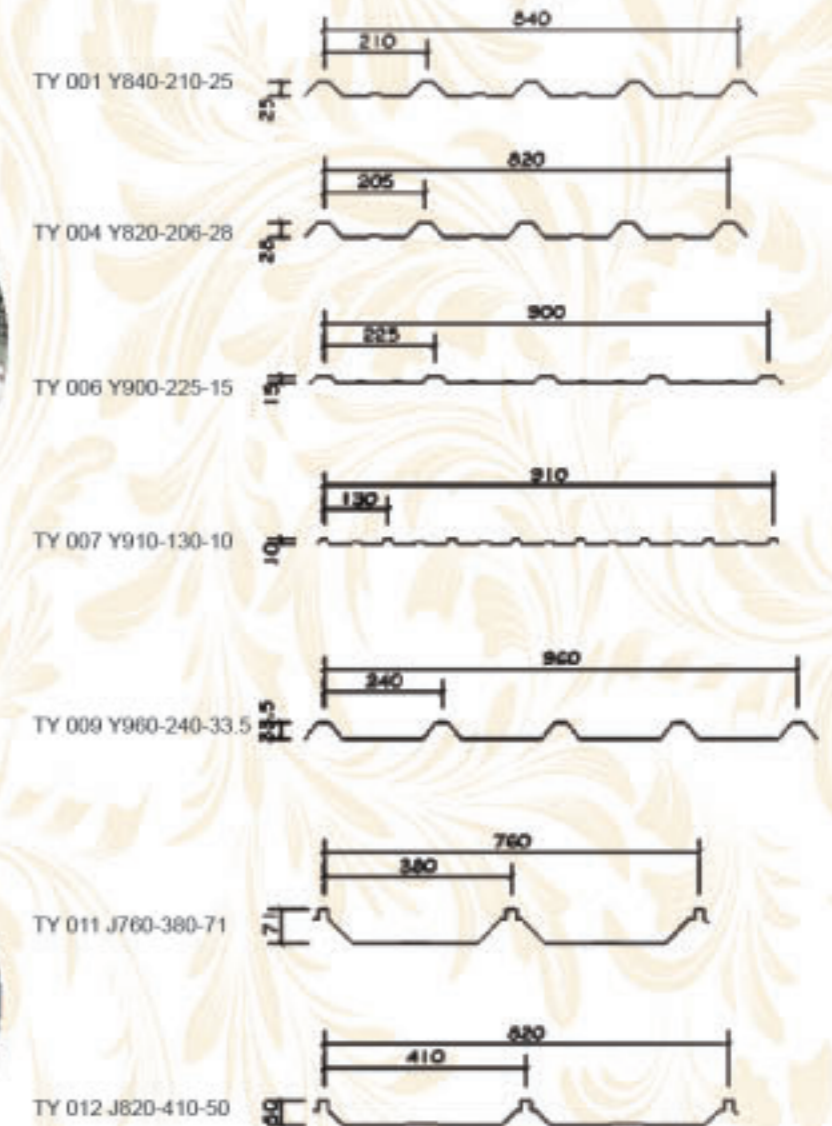
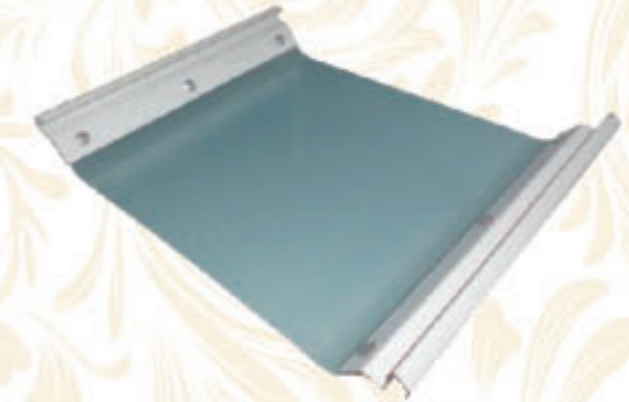
Oxygen index: 20.2

Pop strength: 50

Application: Industrial factory, Logistics warehouse, Agricultural greenhouse, etc, is the most popular skylight products warranty for 15 years.

Sheeting system

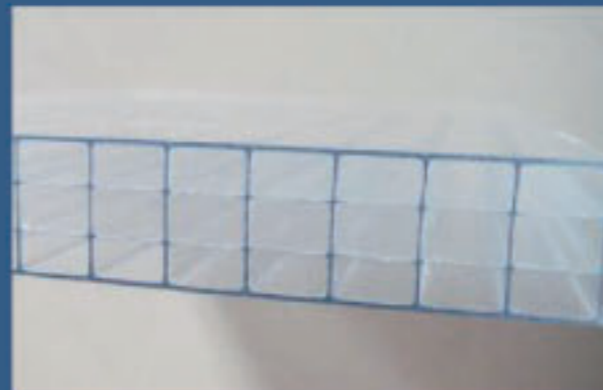
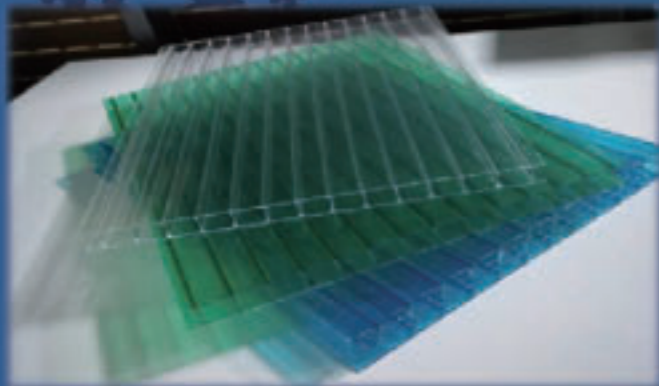
FRP Sheet Using





Sheeting system

Polycarbonate Sheet



Specification

Polycarbonate sheet shape	Brand Class	Thickness(mm)	Colour(cus tomize)
Double Layer	*PC* 3 Years Warranty	3/5/7/9	transparent, lake blue, grass green, brown, milky-white, smoky, etc.
	*拜特尔*5 Years Warranty Thickness-0.2mm	3.5/5 5/7 5/9 5	
	*科基*10 Years Warranty Thickness-0.5mm	4/6/8/10	
	*沙伯*10 Years Warranty Thickness-0.3mm	4/6/8/10	
Three Layer	*尚品*10 Years Warranty	4/6/8/10	
	*科基*10 Years Warranty	8/10/12/14/16/18	
	*沙伯*10 Years Warranty	8/10/12/14/16/18	
Four Layers	*尚品*10 Years Warranty	8/10/12/14/16/18	
	*拜特尔小格*Four Layer Rectangular Polycarbonate Sheet,5 Years Warranty	6/8/10/12/14	
	*科基小格*Four Layer Rectangular Polycarbonate Sheet,10 Years Warranty	6/8/10/12/14	
	*沙伯大格*Four Layer Rectangular Polycarbonate Sheet, 10 Years Warranty	8/10/12/14/16/18/20	
Five Layers	*尚品大格*Four Layer Rectangular Polycarbonate Sheet,10 Years Warranty	8/10/12/14/16/18/20	
	*科基*10 Years Warranty	12/14/16/18/20	
	*沙伯*10 Years Warranty	12/14/16/18/20	
Solid Sheet	*尚品*10 Years Warranty	12/14/16/18/20	
	*PC*3 Years Warranty	1-3	
	*拜特尔*5 Years Warranty	1-4 4-10	
	*沙伯*10 Years Warranty	1-8 8-15	

Greenhouse

Glass Greenhouse

The Glass Greenhouse is characterized by high light-transmitting rate, beautiful appearance, simple construction and stable structure, suitable for the plants of great demands for sunlight. The Glass Multi-Span Greenhouse is specialized with 3 roofs every span, every span double slope. The skeleton materials of the greenhouse is made by galvanized steel materials, connected by galvanized and anti-rot bolts and screws, no welded point. And the Greenhouse can be used for exhibition, seed-breeding, flower and vegetable and market or mall, ecological restaurant, teaching or scientific research, etc.



Structure and Configuration

Skeleton: galvanized steel materials;

Type of Construction: Venlo Type

Covering Materials: Float Glass is available on the roof and side, Thickness 4mm or 5mm. Hollow Glass can be also used on the side.

Supporting Systems: Outside Shading System, Inside Shading System, Cooling System, Seedbed System, Heating System, Ventilation System, Electric Controlling System, etc.

Technical Index: Single-Span Width:9.6m/10.8m/12m Single-Bay Width:4m Height of Greenhouse:4.5m to 7.5m Height of the Gutter:3.0m to 6.0m

NOTE: The height of the gutter can be defined by the requirements of our clients.



Greenhouse

PC-sheet Greenhouse

PC-Sheet Greenhouse is specialized by the fashionable appearance, beautiful and stable structure, great light-transmitting performance and low thermal conductivity. The PC-Sheet Multi-Span Greenhouse is simply constructed and installed, 3 roofs every span, double slopes every roof. The skeleton is made by galvanized steel materials, connected by galvanized bolts and screws, no welded point. There are large day-lighting areas and uniform sunlight in the greenhouse. It is also characterized with the property of great anti-ultraviolet performance and thermal insulation performance as well as energy-saving ability. The greenhouse can be used for exhibition, seed-breeding, flower and vegetable and market or mall, ecological restaurant, etc.



Structure and Configuration

Skeleton: galvanized steel materials;

Type of Construction: Venlo Type/Arched Roof structure

Covering Materials: PC Sheet, hard and anti-ultraviolet, is available on the roof and side. Hollow Glass can be also used on the side.

Supporting Systems: Outside Shading System, Inside Shading System, Cooling System, Seedbed System, Heating System, Ventilation System, Electric Controlling System, etc.

Technical Index:

Single-Span Width: 9.6m/10.8m/12m

Single-Bay Width: 4m

Height of Greenhouse: 4.5m to 7.5m **Height of the Gutter:** 3.0m to 6.0m

NOTE: The height of the gutter can be defined by the requirements of our clients.

Greenhouse

Plastic-film Greenhouse

Plastic-film Greenhouse, cost-saving and convenient to use, is a kind of equipment for cultivation or breeding that is constructed simply. The greenhouse has great space-efficient performance and strong ventilation ability, also preventing the heat loss and the intrusion of cold air. It can be used for the seed-breeding or planting of dwarf fruit tree and for aquaculture and live-stock breeding as well as for exhibition, ecological restaurant and teaching or scientific research, etc. The Plastic-film Greenhouse can also be specially used for growing fruits, flowers and vegetables, providing them with the most suitable conditions and protecting them insects and cold.



Structure and Configuration

Skeleton: galvanized steel materials;

Type of Construction: Arched Roof structure

Covering Materials: PE film, heat-preserving and durable on the roof and side. Hollow Glass Float Glass or PC sheet can be also used on the side.

Supporting Systems: Outside Shading System, Inside Shading System, Cooling System, Seedbed System, Heating System, Ventilation System, Electric Controlling System, etc.

Technical Index:

Single-Span Width: 5-10m **Single-Bay:** 5-10m

Single-Bay Width: 1-2m

Height of Greenhouse: 5.5m to 6.5m **Height of the Gutter:** 3.0m to 4.0m

NOTE: The height of the gutter can be defined by the requirements of our clients.



Greenhouse

Tunnel Greenhouse

Tunnel Greenhouse, simply installed, is framed by galvanized tubes. There is no up right in the greenhouse, strengthening the lighting effects, good for the mechanical operations, promoting the land-utilizing ability. It can be used for the seed-breeding and planting of flower and vegetable, and the breeding of poultry.



Structure and Configuration

Skeleton: galvanized steel materials;

Type of Construction: Arched

Covering Materials: The Tunnel Greenhouse is covered by PE film or anti-UV PC sheet, heat-preserving and durable.

Supporting Systems: Outside Shading System, Plastic-film Reeling Ventilation System, etc.

Technical Index:

Span Width: 5-10m **Single-Bay:** 1-2m

Single-Bay Width: 4m

Total Height: 2.8m-3.5m

Side Height: 1.0m-1.5m

NOTE: The total height can be defined by the requirements of our clients.

Project case

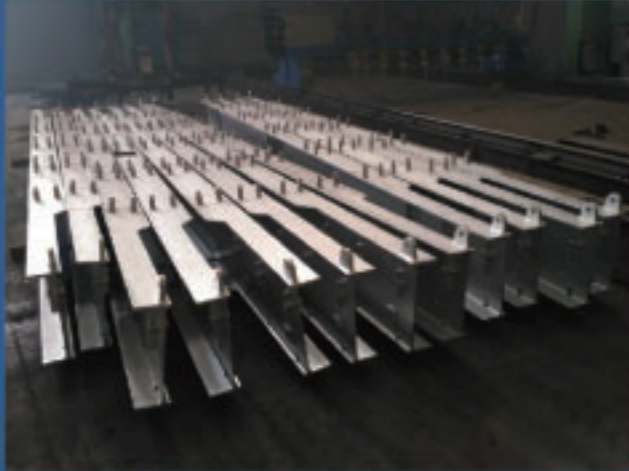
- Shenyang the 4th ring road project





Project case

- bailey bridge for American customer (1,000TONS)



Project case

- Dongta Bridge(2,000tons)





Project case

➤ Crushing station project of Australia

Half movable ore crushing station

The crushing station for the Australian SIMIRON is main equipment in initial crushing iron ore. The project contractor is China International Trust and Investment Company, German kroeber crushing station technology company designed and built, our company provides steel structure part of equipment till 3500tons.



Project case

- Workshop with corrugated color sheet
- Heilongjiang agricultural development Co.,Ltd.
- 12000 m²



- Liaoning SDSK industrial Co.,Ltd.
- 6600 m²





Project case

- Prefabricated steel structure
- Locomotive museum
- Latticed column
- Cross column
- Total 3300Ton



Other project case

The highway construction project Landscape bridge project



Wu'ai bridge project

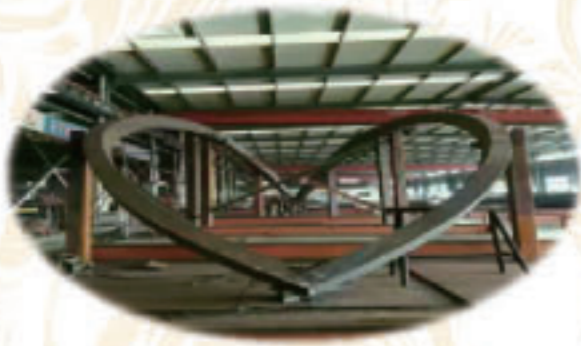


The liaoyang grand bridge project





Advantage



The drawing design ,program planning , manufacture



Oversea installation



Specially shaped steel structural parts



Cooperative partner



中国铁建



中國建築



HONDA



pepsi



ANSTEEL
鞍钢集团



JAGUAR



东北金城建设集团股份有限公司

Contact US

Our Office



Liaoning QHK Construction Material Technology Co.,Ltd

General manager: Peter Cheng

Email: Petercheng@qhkct.com

Mobile: 008613804050369

Whatsapp: 008615104005177

Website: www.qhkct.com

www.prefabricatedsteelstructures.com

Address: Room 202. D07, Shenyang International Software Park, Hunnan District. Shenyang China.