



YONGMING NEW MATERIALS

YONGMING STEEL STRUCTURE BUILDING

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SHANDONG YONGMING NEW MATERIALS CO., LTD.

COMPANY PROFILE



With over 30 years of dedicated efforts in the metal building materials industry, Shandong Yongming New Materials Co., Ltd. has developed into a comprehensive enterprise integrating R&D, production, and sales, focusing on providing high-quality metal building materials solutions for global customers.

Since its establishment, we have always adhered to the pursuit of ultimate quality, accumulating profound technical heritage and rich practical experience in the manufacturing and sales of color steel coils, galvanized coils, aluminum-magnesium-manganese alloy plates, profiled plates, metal-faced insulated sandwich panels, steel structure systems, and prefabricated houses. These 30 years of trials and hardships are not only a witness to the continuous innovation of our technology but also a reflection of our adherence to commitments to customers.

With excellent product quality and a sound service system, we have won wide praise and sincere trust from customers at home and abroad. At present, our products have successfully entered markets in many regions around the world, including Europe, the Americas, Oceania, Africa, the Middle East, and Southeast Asia, achieving an annual output value of more than 50 million RMB and establishing a good brand image in the international market.

In terms of production strength, we have sufficient inventory of raw material steel, ensuring the continuity and stability of production. Meanwhile, the company is equipped with multiple advanced production lines for manufacturing color steel coils, galvanized coils, aluminum-magnesium-manganese alloy plates, profiled plates, metal-faced insulated sandwich panels, steel structure systems, and prefabricated houses. These advanced equipments provide a solid guarantee for the high quality of products.

Our product range is rich and diverse. Products such as steel structure workshops and their scheme design, prefabricated houses and their scheme design, insulated sandwich panels, PPGI, GI, zinc alloys, and metal profiled plates are favored by.



CATALOGUE

- 01 | Company certificate
- 02 | Catalogue
- 03 | Company qualification
- 04 | Client overseas
- 05 | Prefabricated steel structure system
- 07 | Jedha steel structure
- 08 | Jedha purlin system
- 09 | Jedha sandwich panel
- 10 | Jedha sandwich panel
- 11 | Professional prefabricated steel plate system
- 13 | PUR/PIR wall sandwich panel
- 14 | Roof sandwich panel
- 15 | Rock wool / glass wool + pu sandwich panel
- 18 | High - quality rock wool sandwich panel
- 19 | Cold storage cladding
- 20 | Clean room cladding
- 21 | Appendixes
- 23 | Engineering case
- 27 | Color steel coil, aluminum-magnesium-manganese coil
- 31 | Quick-assembly color steel enclosure wall
- 33 | Prefabricated house



FM Approvals	SGS Audited Supplier
Top 30 Steel Building Company	Grade 1 Certificate of Steel Project Design
China Steel Structure Gold Medal	Grade 1 Certificate for Steel Project Contracting
ISO9001 and ISO14001 International Certificate	Standing Director of China Steel Structure Association
Grade 1 Certificate for Steel Structure Manufacturing	Member of China Construction Metal Structure Association

Yantai Yongming has exported steel building products to more than 60 countries and regions in the world.



PORTAL TYPE STEEL FRAME SYSTEM

It is light and improves the space utilization rate.
 It features a high degree of industrialization and a short construction period.
 It is flexible in pillar arrangement.
 It is beautiful and has a strong modern sense.
 It has high comprehensive economic benefits.



BASIC FORMS OF SINGLE LAYER PORTAL TYPE STEEL FRAMES



Single Slope
and Single Span



Single Slope
and Multiple Spans



Multiple Spans
and Single Ridge



Multiple Spans
and Multiple Ridges



LARGE-PILLAR DISTANCE SYSTEM

It meets the requirements of large space.
It is beautiful layout.
It is economically reasonable.

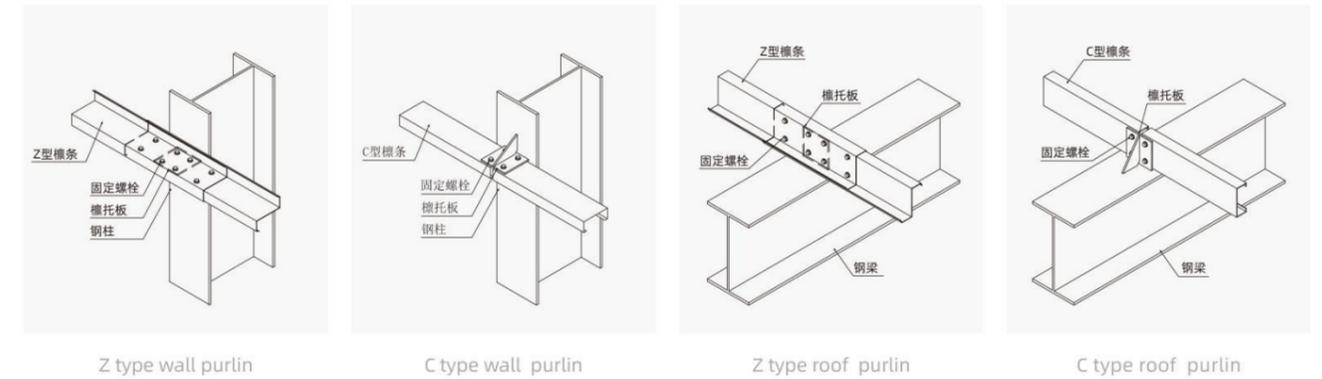


MULTI-LAYER FRAME SYSTEM

Multi-layer auxiliary facilities of parking lots,
office buildings and industrial buildings.

THIN-WALL COLD-ROLLED SECTION STEEL

It consists of Z-shaped and C-shaped sections.
It employs the hot-dip galvanization technology and the zinc amount exceeds Z275.
Its yield strength is Q345.
The holes pre-punched in the factory match with cladding structures,
guarantee the installation precision and improve construction efficiency.

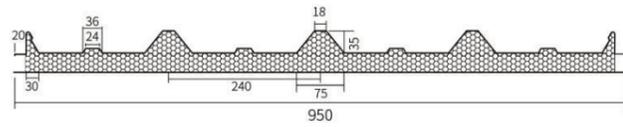


TRUSS PURLIN

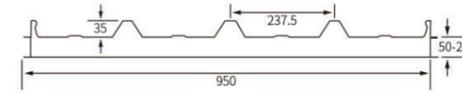
The 12-18m-span purlin employs the truss form which can bear a larger load and features a smaller deflection.
In the condition of the same load, the truss purlin uses less steel and is more economical.
It increases the space between building pillars, reduces the basic work amount of civil engineering and further lowers costs.
The suspension load, pipelines and suspended ceilings can all directly act on the lower chords of trusses to save sub-components including suspended beams and suspended keels.
All pipelines can travel through cavities of web members of trusses so as to improve the utilization rate of indoor space.



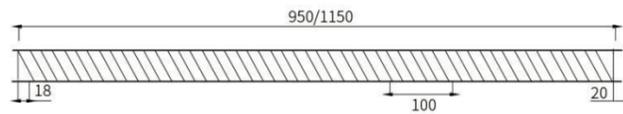
950 TYPE ROCKWOOL ROOF PANEL



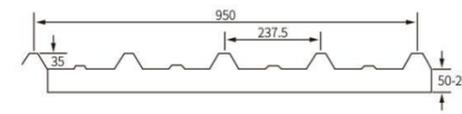
950 CAP TYPE EPS ROOF PANEL



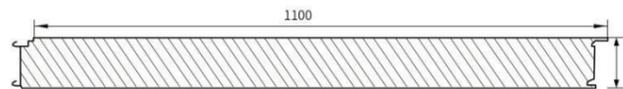
950/1150 TYPE ROCKWOOL WALL PANEL



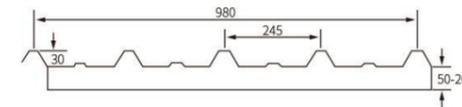
950 TYPE EPS ROOF PANEL



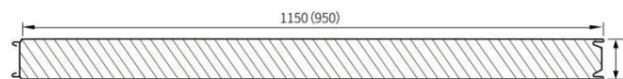
AUSTRALIA HIDDEN SCREW WALL PANEL



980 TYPE EPS ROOF PANEL

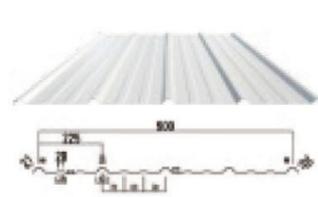


AUSTRALIA Z TYPE WALL PANEL



950 / 1150 TYPE EPS WALL PANEL





YX15-225-900 (可选高强度板)

压型钢板型号TYPE	YX15-225-900	用途
有效覆盖宽度 (mm) EFFECTIVE WIDTH 展开	900	APPLICATION
宽度 (mm) FEEDING WIDTH 板厚 (mm)	1000	
THICKNESS 截面惯性矩 (cm ⁴ /m) SECTION INERTIA	0.5	0.6
INERTIA	1.23	1.48
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	3.85	4.55
		屋面、内衬、墙面 Roof Lining And Wall Panel



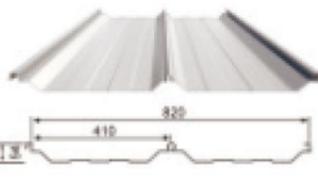
YX82-475(U-475)

压型钢板型号TYPE	YX82-475(U-475)	用途
有效覆盖宽度 (mm) EFFECT WIDTH	475	APPLICATION
展开宽度 (mm) FEEDING WIDTH	600	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	39.3	47.24
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	22.62	27.21
		隐藏式屋面板 JH-Roof Panel



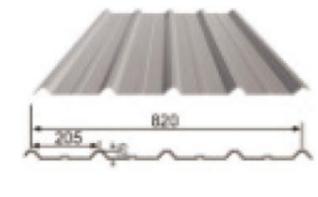
YX76-380-760

压型钢板型号TYPE	YX76-380-760	用途
有效覆盖宽度 (mm) EFFECT WIDTH	760	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	39.03	46.86
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	17.89	21.42
		隐藏式屋面板 JH-Roof Panel



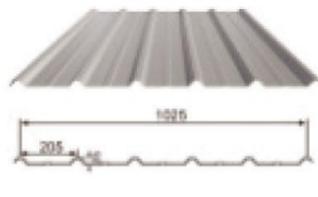
YX54-410-820

压型钢板型号TYPE	YX54-410-820	用途
有效覆盖宽度 (mm) EFFECT WIDTH	820	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	22.62	27.14
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	15.06	18
		隐藏式屋面板 JH-Roof Panel



YX25-205-820 (可选高强度板)

压型钢板型号TYPE	YX25-205-820	用途
有效覆盖宽度 (mm) EFFECT WIDTH	820	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	4.38	5.32
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	7.18	8.55
		隐藏式屋面板 Roof and Wall Panel



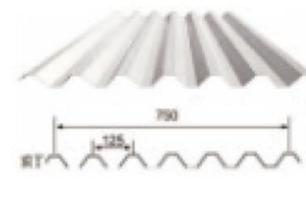
YX25-205-1025

压型钢板型号TYPE	YX25-205-1025	用途
有效覆盖宽度 (mm) EFFECT WIDTH	1025	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1200	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	4.38	5.32
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	7.18	8.55
		隐藏式屋面板 Roof and Wall Panel



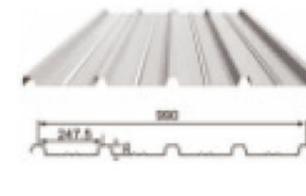
YX25-205-820(掬弧)

压型钢板型号TYPE	YX25-205-820	用途
有效覆盖宽度 (mm) EFFECT WIDTH	820	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	4.38	5.32
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	7.18	8.55
		屋面板 Roof Panel



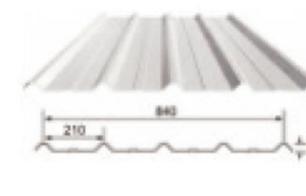
YX35-125-750(V-125)

压型钢板型号TYPE	YX35-125-750(V-125)	用途
有效覆盖宽度 (mm) EFFECT WIDTH	750	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	10.61	12.74
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	6.12	7.33
		墙面、屋面板 Roof And Wall Panel



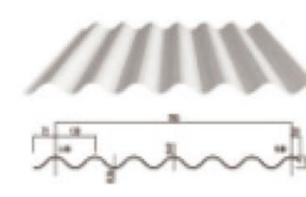
YX35-247.5-990

压型钢板型号TYPE	YX35-247.5-990	用途
有效覆盖宽度 (mm) EFFECT WIDTH	990	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1200	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	9.6	11.56
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	8.9	10.6
		墙面、屋面板 Roof And Wall Panel



YX25-210-840 (可选高强度板)

压型钢板型号TYPE	YX25-210-840	用途
有效覆盖宽度 (mm) EFFECT WIDTH	840	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	4.44	5.38
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	6.98	8.31
		墙面、屋面板 Roof And Wall Panel



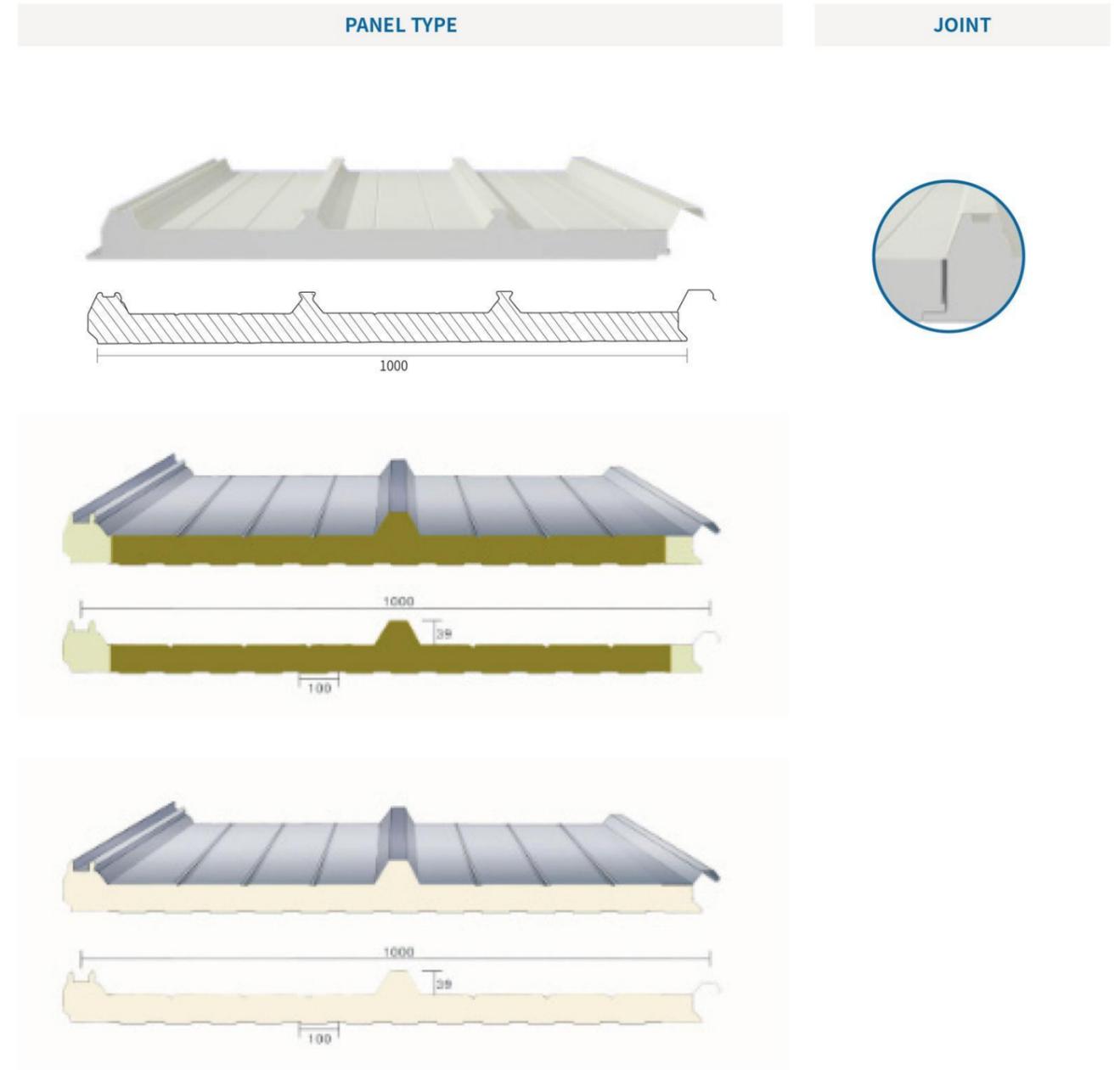
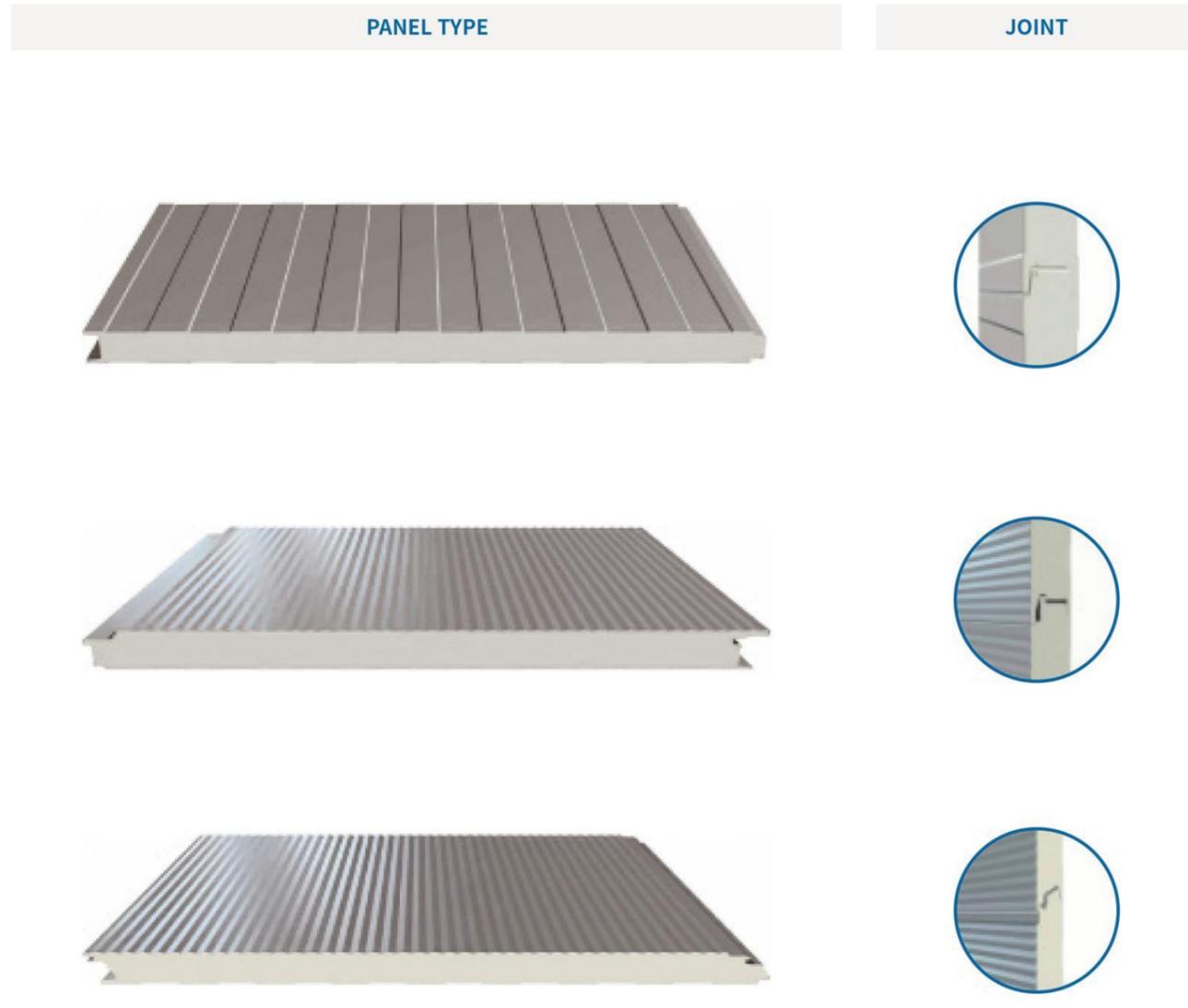
WAV780 (横装式780大波纹)

压型钢板型号TYPE	WAV780	用途
有效覆盖宽度 (mm) EFFECT WIDTH	780	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	7.2	8.64
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	4.64	5.55
		墙面 Wall Panel



YX18-76.2-836(弧形)

压型钢板型号TYPE	YX18-76.2-836	用途
有效覆盖宽度 (mm) EFFECT WIDTH	836	APPLICATION
展开宽度 (mm) FEEDING WIDTH	1000	
板厚 (mm) THICKNESS	0.5	0.6
截面惯性矩 (cm ⁴ /m) SECTION INERTIA	2.45	2.94
截面抵抗矩 (cm ³ /m) SECTION RESISTANC	2.57	3.07
		墙面、屋面板 Roof And Wall Panel



Panel Loading and Heat Transfer Coefficient

整板厚 Panel thick mm	传热系数 Heat transfer coefficient (W/m ² ·K)	板重 Weight kg/m ²	荷载分布 Load distribution												
			简支 (mm) Single support							连续 (mm) Continuous					
			P=kn/m ²	0.6	0.8	1.0	1.2	1.5	2.0	0.6	0.8	1.0	1.2	1.5	2.0
45	0.43	11.18	L=	3956	3445	3072	2784	2448	2046	4430	3858	3440	3118	2741	2291
50	0.39	11.38	L=	4268	3721	3323	3014	2655	2224	4780	4167	3721	3375	2973	2490
60	0.33	11.78	L=	4861	4246	3800	3453	3049	2564	5444	4755	4256	3867	3414	2871
75	0.26	12.38	L=	5688	4980	4464	4064	3599	3038	6370	5577	4999	4551	4030	3402
100	0.20	13.38	L=	6941	6087	5466	4984	4423	3746	7773	6817	6121	5582	4953	4195
120	0.16	14.18	L=	7853	6890	6189	5645	5013	4250	8795	7716	6931	6322	5614	4760
150	0.13	15.38	L=	9099	7980	7166	6534	5800	4913	10190	8937	8025	7318	6496	5502

Above L unit is mm. Above data calculated by 0.6mm steel exterior plate, 0.5mm inner steel plate and 40kg/m³ density PU.

Panel Loading and Heat Transfer Coefficient

整板厚 Panel thick mm	传热系数 Heat transfer coefficient (W/m ² ·K)	板重 Weight kg/m ²	荷载分布 Load distribution												
			简支 (mm) Single support					连续 (mm) Continuous							
			P=kn/m ²	60	80	100	120	150	200	60	80	100	120	150	200
50	0.32	12.05	L=	4606	4070	3680	3378	3027	2602	5158	4558	4212	3783	3390	3914
75	0.21	12.05	L=	5767	5078	4578	4190	3738	3192	6459	5687	5127	4692	4186	3575
100	0.16	14.05	L=	6818	5993	5393	4927	4385	3731	7636	6712	6040	5518	4911	4178



DIVERSE SIDE EFFECTS ARE OPTIONAL

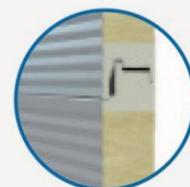
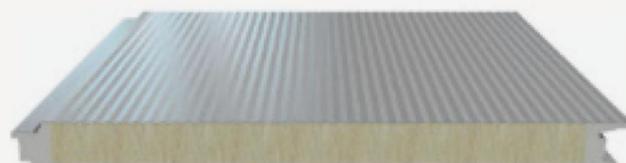
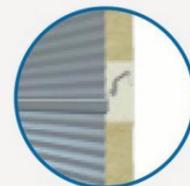


Lishui Corrugated Panel Flat Ribbing Panel Smooth Flat Panel Orange Peel Embossing Panel Shine Color Embossing Panels

PANEL TYPE

JOINT

DECORATIVE GAP

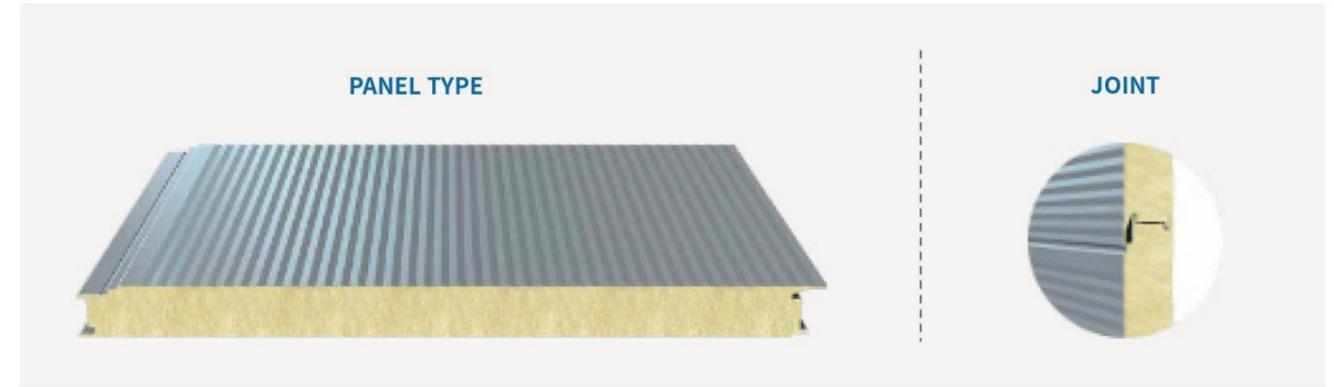


Panel Loading and Heat Transfer Coefficient

整板厚 Panel thick mm	传热系数 Heat transfer coefficient (W/m ² ·K)	板重 Weight kg/m ²	荷载分布 Load distribution												
			简支 (mm) Single support			连续 (mm) Continuous									
			P=kn/m ²	0.6	0.8	1.0	1.2	1.5	2.0	0.6	0.8	1.0	1.2	1.5	2.0
50	0.80	15.13	L=	4207	3655	3254	2942	2581	2148	4711	4093	3644	3295	2890	2405
75	0.53	17.94	L=	5609	4894	4373	3969	3500	2936	6282	5481	4897	4445	3920	3288
100	0.41	20.75	L=	6840	5977	5349	4862	4296	3614	7660	6694	5990	6556	4811	4047

Panel Loading and Heat Transfer Coefficient

整板厚 Panel thick mm	传热系数 Heat transfer coefficient (W/m ² ·K)	板重 Weight kg/m ²	荷载分布 Load distribution												
			简支 (mm) Single support			连续 (mm) Continuous									
			P=kn/m ²	0.6	0.8	1.0	1.2	1.5	2.0	0.6	0.8	1.0	1.2	1.5	2.0
50	0.69	12.61	L=	4291	3746	3349	3042	2684	2254	4850	4195	3750	3407	3006	2524
75	0.47	14.16	L=	5711	5004	4490	4091	3627	3067	6396	5604	4491	5605	4062	3435
100	0.36	15.71	L=	6959	6106	5486	5005	4445	3770	7794	6838	6144	5605	4978	4222



AVAILABLE PANEL EFFECTS



Lishui Corrugated Panels



Smooth Flat Panels



Shine Color Embossing Panels

SPAN TABLE (MAXIMUM DEFORMATION $\leq L/240$)

厚 (mm) S(mm)	传热系数 (W/m ² ·K) Heat transfer coefficient	板面荷载 Panel load p=kn/m ²										
		0.6	0.8	1.0	1.2	1.5	0.6	0.8	1.0	1.2	1.5	
50	0.80	L=	2930	2740	2550	2330	2060	2590	2400	2100	2060	1800
80	0.54	L=	3900	3490	3190	2930	2510	3380	3000	2780	2510	2180
100	0.43	L=	4350	3860	3560	3230	2780	3680	3340	3080	2810	2400

有效宽度 Effective width	1000mm
板面厚度 thick	50mm、75mm、100mm、150mm
长度 length	As to drawing

The Yongming polyurethane cold room panel is a new composite panel which takes light rigid polyurethane foams as the core material and colorful steel plates or stainless steel plates as the surface material.

The new composite panel has advantages such as a low heat conductivity coefficient, good load resistance performance, a high percentage of close area, excellent flame resistance performance and a wide scope of temperature resistance, can effectively prevent cold energy transmission due to the larger temperature difference between the inside and the outside so cold rooms are more energy-saving and the working efficiency of cold rooms is improved.

It is mainly used in the food, slaughter, medicine, cold chain logistics and other industries.



PANEL TYPE



JOINT



The Yongming purification panel employs dedicated color steel plates and color aluminum plates as surface panels and is a composite panel with liner rock wool, aluminum honeycomb panels and magnesium oxide panels.

With its unique dustproof, anti-static and anti-microbial effects, it is widely used in electronic equipment, pharmaceutical, medical treatment, food, biology, aviation and aerospace, manufacture and scientific research of precision instruments and other purification engineering fields which have stricter requirements for indoor environments.



Gypsum Rock Wool

Gypsum Aluminum Honeycomb

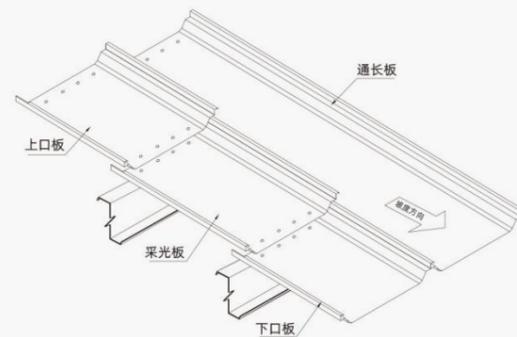
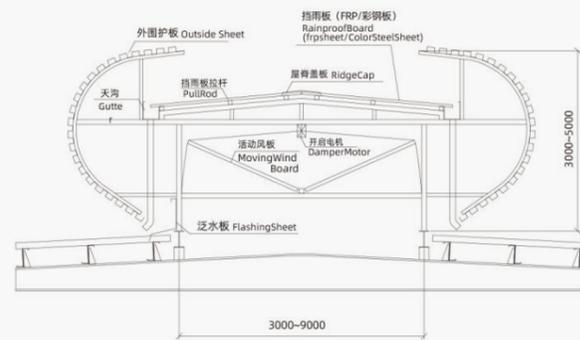
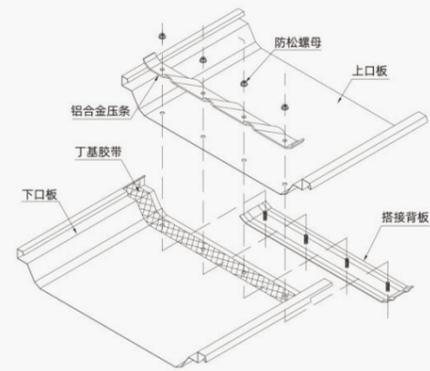
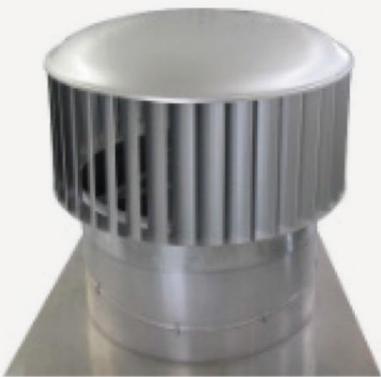
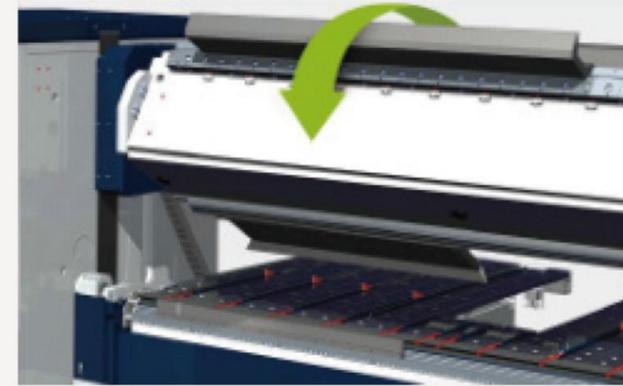
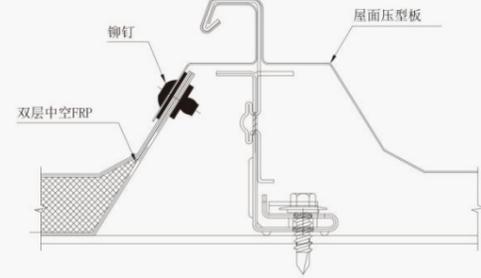
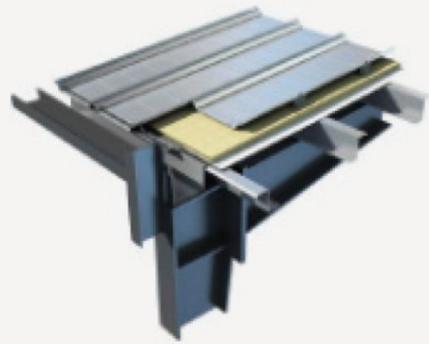
Glass Magnesium Grille

Flame-retarded Paper Honeycomb

Silicon Rock Plate

Magnesium Oxysulfate







YONGMING® PROJECT



YONGMING® PROJECT





The sheet products sold by YONGMING Company, namely color steel plates, color aluminum plates, galvanized plates and aluminum-zinc coated bright plates, with their respective unique performance advantages, are widely used in various scenarios in the modern industrial and construction fields and have become important materials promoting the development of various industries.

Color steel plates occupy an important position in the construction industry due to their excellent comprehensive performance. Composed of a base plate and a color coating, they not only have good corrosion resistance but also can present rich colors according to needs, with high aesthetic value. In the construction of large factories, color steel plates are often used as roof and wall materials. Their lightweight characteristic can reduce the load on the building structure, and at the same time, they are easy to install, which can shorten the construction period. In addition, color steel plates are also suitable for temporary buildings, such as prefabricated houses and disaster relief resettlement houses. These buildings need to be built quickly and have certain residential safety, and color steel plates can just meet these requirements. In the warehousing field, warehouses built with color steel plates have good rainproof and moisture-proof performance, which can effectively protect the stored goods.

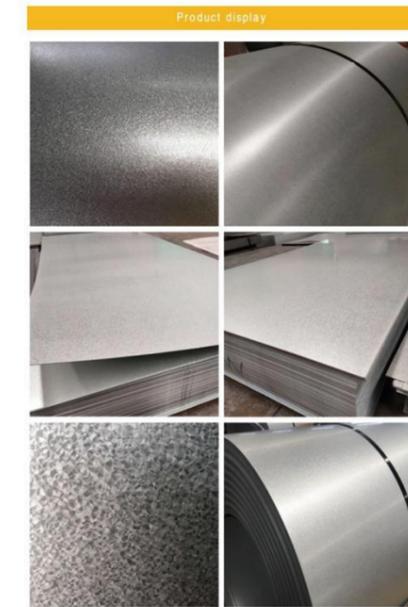
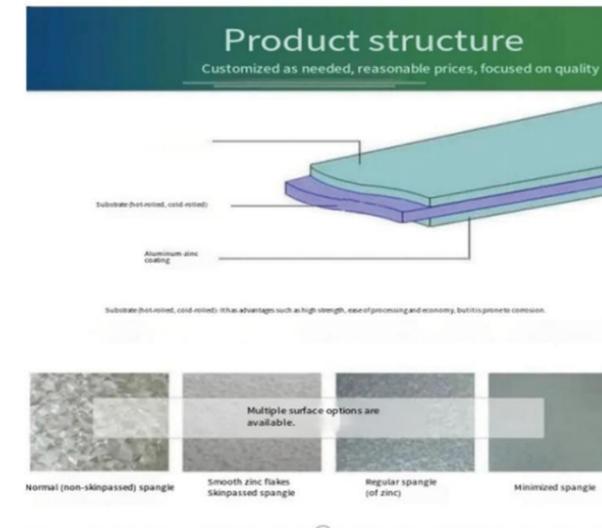
Color aluminum plates are widely used in architectural decoration and outdoor facilities because of their excellent weather resistance and decorative properties. They are based on aluminum plates, and the surface is specially treated to form a color coating, which has strong UV resistance and is not easy to fade or age in outdoor environments. In building exterior wall decoration, color aluminum plates can create various unique architectural shapes, improving the overall aesthetics and grade of the building. Many modern-style office buildings and commercial centers use color aluminum plates as exterior wall materials. In the production of outdoor billboards, color aluminum plates can ensure that the billboards remain with clear patterns and colors after long-term exposure to wind and sun, extending their service life. At the same time, because aluminum plates are light in weight, color aluminum plates are also often used in occasions with strict weight requirements, such as aircraft interiors and ship decorations.

Galvanized plates are a kind of protective plates formed by galvanizing the surface of steel plates, and their main advantage lies in their excellent rust resistance. In the automobile manufacturing industry, galvanized plates are widely used in car body parts. Because cars will come into contact with corrosive substances such as rainwater and dust during driving, the galvanized layer can effectively protect the car body steel plates from corrosion and extend the service life of the car. In home appliance manufacturing, the shells of many electrical appliances such as refrigerators and washing machines are made of galvanized plates, which not only ensure the sturdiness of the shells but also prevent the electrical appliances from rusting during use. In addition, galvanized plates are also often used in pipeline manufacturing, especially water and gas transmission pipelines, which can effectively resist corrosion from the internal medium of the pipeline and the external environment.

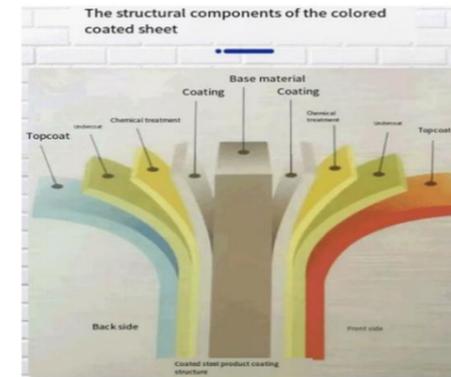
Aluminum-zinc coated bright plates combine the protective properties of aluminum and zinc, and have stronger corrosion resistance and heat resistance than galvanized plates. In building roof systems, especially large buildings with high requirements for roof materials, such as gymnasiums and exhibition halls, aluminum-zinc coated bright plates can withstand the test of harsh weather and reduce maintenance costs. In the agricultural field, aluminum-zinc coated bright plates can be used to build greenhouses. Their good light transmittance and corrosion resistance help create a suitable growing environment and promote the growth of crops. In the manufacturing of industrial equipment, the shells of some equipment operating in high-temperature and high-humidity environments, when made of aluminum-zinc coated bright plates, can improve the service life and stability of the equipment.

In conclusion, these four types of plates play an important role in different fields with their respective characteristics, providing strong material support for the development of various industries.

Aluminum-zinc coated bright plate、Galvanized plate:



Color steel plates with various patterns and colored aluminum-magnesium-manganese plates (plates of various specifications, models, materials and colors can be customized according to customers' requirements):



High-quality galvanized steel sheet

- 1) In terms of mechanical properties, galvanized sheets are generally classified into hard plates and ordinary plates. Among them, the surface hardness of the hard plate is not less than 75HV, the yield strength is not less than 350Mpa, and the tensile strength is not less than 470Mpa; while the yield strength of the ordinary plate is less than 350Mpa and the tensile strength is less than 470Mpa.
- 2) In terms of surface texturing classification, galvanized sheets are generally divided into textured sheets and non-textured sheets. Among them, the textured sheet refers to the sheet after the smooth rolling mill rolls have undergone laser texturing. During the thin plate rolling or leveling process, the surface of the rolling mill rolls will have...
The grooves on the surface of the plate further form several deformed hardening points (micro-peaks) to create a laser-textured plate.
- 3) Based on the classification of surface passivation, galvanized sheets are divided into ordinary passivated and heavy passivated sheets. Among them, the heavy passivated sheets are:
The surface of the plate with chrome point 70 is treated with passivation. The ordinary passivation plate is a galvanized plate with chrome points ranging from 25 to 30. Compared with ordinary passivation, the heavy passivation has a better anti-corrosion effect.
- 4) According to the usage nature, galvanized sheets are divided into export galvanized and colored base plates. The colored base plates are used for subsequent color coating operations, while the export galvanized sheets are directly used for export without any further processing.



Galvanized sheet production site

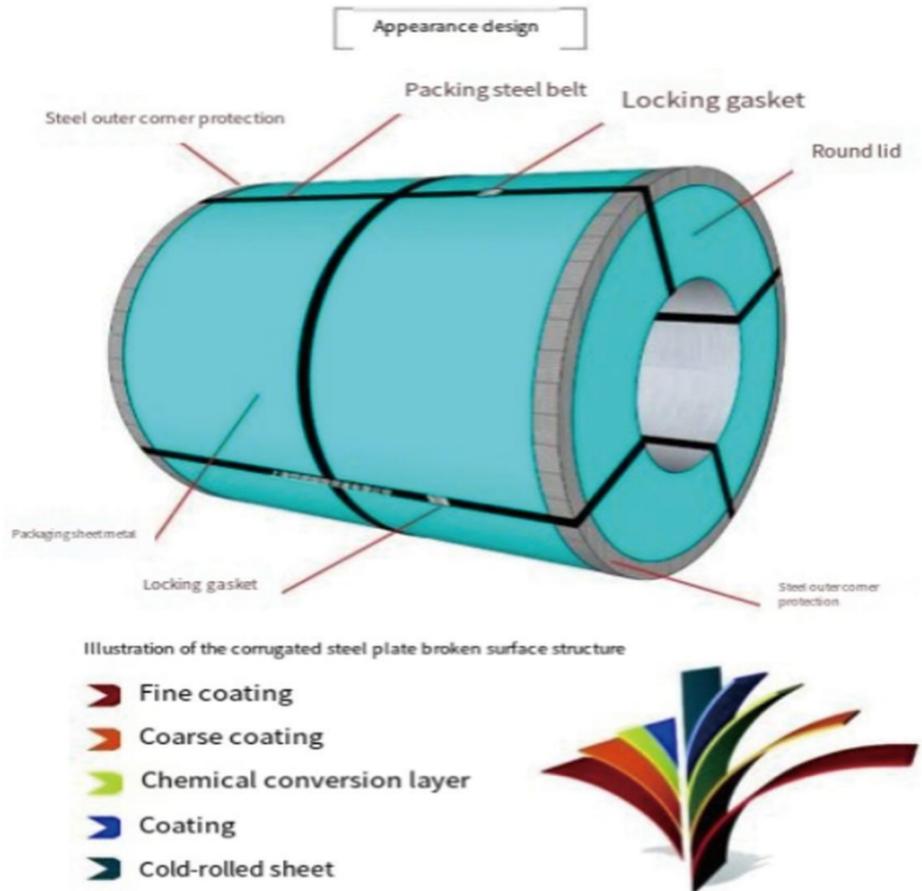


Reticulated surface color steel plate



The design of external packaging can be customized:

SHANG HAI KAI TU APPEARANCE DESIGN



Workshop:



Quick-assembly color steel plate wall panel

With the characteristics of high efficiency and convenience, sturdiness and durability, and economy and practicality, the rapidly assembled color steel fence panels have been widely used in multiple fields, providing flexible and reliable enclosure solutions for various projects and scenarios.

In the field of construction, it is an indispensable "safety guard". Construction sites are often in complex environments, and it is necessary to establish closed areas in a timely manner to ensure construction safety and avoid interference with the surrounding environment. The rapidly assembled color steel fence panels can quickly build stable enclosures, isolating the construction area from the outside world, effectively blocking the spread of dust and noise generated during the construction process, and reducing the impact on surrounding residents and traffic. At the same time, its advantage of fast installation and disassembly can well adapt to the characteristics of tight construction schedules and rapid site changes in construction. As the construction progress advances, the scope and position of the enclosure can be flexibly adjusted.

In municipal engineering construction, the rapidly assembled color steel fence panels also play an important role. For example, projects such as road maintenance and pipeline laying usually require temporary closure of some road sections or areas. This kind of fence panel can quickly form a closed area, ensure traffic safety during construction, and prevent pedestrians and vehicles from straying into the construction area and causing accidents. Moreover, its appearance is relatively neat and beautiful, which can maintain the overall image of the municipal environment to a certain extent and avoid affecting the city's appearance due to shabby construction enclosures.

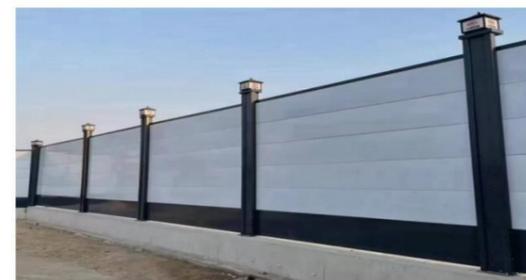
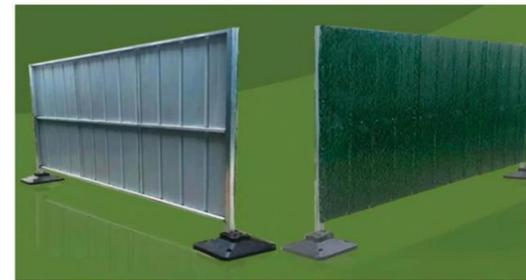
At the scene of large-scale events, the rapidly assembled color steel fence panels also have their uses. Events such as concerts, sports events, and exhibitions need to demarcate specific activity areas, security check areas, logistics areas, etc. Using this kind of fence panel can quickly build partitions with different functions, realizing effective management of on-site personnel and processes. After the event, it can be quickly disassembled without leaving too many residual impacts on the venue, which meets the needs of temporary construction and rapid evacuation for large-scale events.

In addition, it performs well in terms of temporary storage and isolation. When some enterprises are in the peak production season or temporarily need to expand storage space, they can use rapidly assembled color steel fence panels to build temporary warehouses, providing a safe storage environment for goods. In some scenarios that require isolation and control, such as the construction of isolation points during the epidemic prevention and control period and the division of areas in factories, it can also quickly build isolation barriers to meet the needs of temporary isolation.

To sum up, with its unique advantages, rapidly assembled color steel fence panels have important application value in many fields such as construction, municipal engineering, large-scale events, and temporary storage and isolation, providing efficient and flexible solutions for enclosure and isolation needs in various scenarios.

Product picture:

Color steel quick-assembly wall panels of various sizes and patterns can be customized according to customer needs.



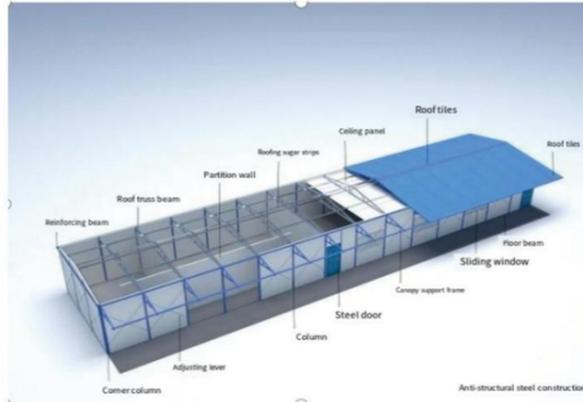
Container House

Hot Sale Prefab Modular Container Home House for Office
 Container house is a prefabricated building with container as the basic structural unit. They can be assembled and disassembled quickly, with a high degree of flexibility and mobility.



Durable Modular Sandwich Panels for Container House Home Construction:

Discover our Durable Modular Sandwich Panels, designed for quick, cost-effective container house construction. With 100% fireproof and waterproof properties, these panels ensure safety and longevity. Enjoy easy transportation and flexible designs that fit your needs!



Product Description

Our Durable Modular Sandwich Panels are perfect for container house construction. Featuring a 100% folding design, they are fireproof and waterproof, providing peace of mind. Quick installation takes only 5 minutes for two workers, reducing labor costs and time. Made with galvanized steel, these panels are durable for 20 years. They offer customizable designs with interchangeable doors and windows, allowing you to create the perfect space for your needs. Each 40HQ container can load 10 units, making transportation convenient. Get ready to ship!

Superior Construction and Design

Our Durable Modular Sandwich Panels are expertly crafted for container house home construction. These panels feature a 100% folding design, enabling easy storage and transportation. Their galvanized steel structure ensures maximum durability, resisting rust and wear while promising a lifespan of up to 20 years. This longevity translates to significant savings over time, making it a cost-effective choice for builders.

Quick and Simple Installation

Time is money, and with our panels, you can install a unit in just 5 minutes with two workers. The simple installation process minimizes labor costs and reduces construction time, allowing you to move forward with your project faster. Their lightweight nature also enhances convenient transportation, making logistics hassle-free. Customization and Flexibility
 One of the standout features of our sandwich panels is their customizable designs. You can interchange doors and windows based on your specific needs, and the interior space can be modified to suit various configurations. Our panels also allow for customer-required partition walls, enabling you to create a layout that perfectly fits your lifestyle or business needs.

Product Advantages

- 100% folding design
- 100% fireproof and waterproof
- Quick installation in 5 minutes
- Simple installation, low cost
- Convenient transportation
- Galvanized steel structure Durable for 20 years
- Customizable designs
- Interchangeable doors and windows
- Customer-required partition walls
- Flexible interior space
- 40HQ capacity for 10 units Ready to ship

Container House Parameters

Size	Exterior size: 5800mm(L)*2500mm(W)*2430mm(H) or customized
	Interior size: 5635mm(L)*2370mm(W)* 2268mm(H)
	Fold size: 5800mm(L)*2500mm(W)*390mm(H)
Weight	1.1t
Structure	Galvanized Steel Frame
Wallboard	Heat insulation rock wool color steel composite sandwich panel or customized
Window	Aluminum alloy anti-theft integrated window sliding series or customized
Floor	Grade A fireproof glass magnesium plate or customized
Install Time	2 workers 5 mins
Floor live load	200kg/m ²
Earthquake Resistant	Grade 10
Wind Resistant	Grade 12
Electrical system	Circuit protector; Industrial plug and socket (5 holes); Single tube LED light; Special socket for air conditioner (3holes); Light switch or customized



Container House Part Photos



Application of Durable Modular Sandwich Panels

1. Residential Buildings Durable Modular Sandwich Panels are ideal for constructing container homes and modular housing solutions. Their customizable design allows homeowners to create a personalized living space that meets their specific needs while ensuring safety and comfort. With fireproof and waterproof properties, these panels provide a secure and reliable shelter for families.

2. Commercial Structures Businesses can benefit from the versatility of our sandwich panels in constructing offices, retail spaces, and storage facilities. The quick installation time reduces downtime, allowing businesses to set up operations swiftly. Additionally, the durable materials ensure long-lasting performance in various commercial applications, making it a smart investment for business owners.

3. Industrial Applications Our sandwich panels are perfect for industrial environments, including warehouses, factories, and manufacturing plants. The panels' weather resistance and corrosion-resistant properties make them suitable for harsh industrial conditions, ensuring a safe and stable structure. Their quick installation and customizable features facilitate efficient space utilization in factories and production facilities.

4. Temporary Housing Solutions In response to emergencies or natural disasters, Durable Modular Sandwich Panels can be rapidly

deployed to create temporary shelters. Their lightweight design and ease of transportation allow for quick setup in areas that need immediate housing solutions. The fire and water resistance features ensure safety for occupants during challenging times.

5. Educational Facilities These panels can also be utilized in the construction of schools, classrooms, and educational institutions. Their ability to create flexible interior spaces makes it easy to adapt to changing needs, while their durability ensures a safe learning environment for students.

How to Maintain

To maintain your sandwich panels, periodically check for any signs of wear or damage. Clean the panels with mild soap and water to remove dirt or grime. Inspect the seals around doors and windows to ensure they remain airtight and watertight.

How to Use

Simply unpack the panels and follow the installation guidelines. Ensure you have all necessary tools and assistance for a smooth setup process. Customize the internal layout as desired before finalizing installation.

FAQs

Q1: How long does it take to install a container house?

A1: Installation can be completed in just 5 minutes by two workers per unit. Q2: Are the panels really waterproof?

A2: Yes, our panels are 100% fireproof and waterproof, providing excellent protection. Q3: Can I customize the panel design?

A3: Absolutely! The designs are customizable with interchangeable doors and windows. Q4: What is the expected lifespan of the panels?

A4: Our panels are made from galvanized steel, ensuring durability for up to 20 years.

Power transformer cabinet:

Color steel composite panels are widely used in transformer box rooms, and the following is a detailed introduction:

Structural Composition

The frame of the transformer box room is usually made of high-strength channel steel, square pipes and other profiles through welding. The walls are paved with color steel composite panels, and the roof is generally made of square pipes and steel plates through welding, together with accessories such as box transformer locks, fans, lighting, and travel switches.

Application Advantages

Good Physical Properties

Light weight: Color steel composite panels are light in weight. For example, the aluminum-zinc plated color steel composite panels weigh about 10kg-14kg per square meter, which is equivalent to 1/30 of a brick wall. This makes them easy to transport and install, reduces the overall weight of the transformer box room, and lowers the requirements for the foundation.

High strength: They have high bending and compressive strength, and can be used as maintenance structures or even load-bearing structures. They can effectively bear the weight of the box room itself and possible external forces. Generally, there is no need for beams and columns when the room is in use, which enhances the stability of the box room.

Good impact resistance: They can withstand a certain degree of external impact and are not easy to be damaged when slightly hit. This can effectively protect the transformers and other electrical equipment in the box room and extend the service life of the box room.

Excellent Protective Performance

Good anti-corrosion performance: The surface of color steel composite panels is treated with special anti-corrosion processes. For example, materials such as aluminum-zinc plated steel plates are used, which have good anti-corrosion performance. They can ensure that the equipment is not rusted during long-term use in outdoor environments and resist erosion from natural factors such as rain and air.

Good fire resistance: Some color steel composite panels are filled with flame-retardant materials such as flame-retardant polystyrene foam, rock wool boards, and flame-retardant paper honeycomb boards, which have certain fire resistance. They can prevent the spread of fire and reduce the damage of fire to the box room and equipment.

Strong heat insulation and thermal insulation: They can effectively reduce the impact of solar radiation on the temperature inside the box, lower the operating temperature of transformers and other equipment in the box room, improve the operating efficiency and stability of the equipment, and save energy. For example, the GG-type double-sided color steel sandwich insulation board is filled with flame-retardant polystyrene foam, which can effectively prevent outdoor heat from entering.

Good moisture and water resistance: Color steel composite panels have good sealing performance, which can prevent rainwater and moisture from entering the interior of the box room, avoid short circuits of electrical equipment due to moisture, and extend the service life of the equipment.

Excellent sound insulation performance: They can block the noise generated by the operation of transformers and other equipment in the box room to a certain extent, reduce noise pollution to the surrounding environment, and provide a quieter environment for surrounding residents and staff.

Convenient Construction and Maintenance

Easy installation: The shell of the color steel composite panel box transformer is assembled quickly, can be mass-produced in factories, and is simple to install on site, which can effectively shorten the construction period and improve project efficiency.

Low maintenance cost: Due to their good anti-corrosion, fire resistance, heat insulation and other properties, under normal use conditions, frequent maintenance and repair are not required, which reduces the maintenance cost.

Appearance and Design

Beautiful appearance: Color steel composite panels have bright colors and a variety of colors to choose from, with a beautiful appearance. No additional surface decoration is needed, making the transformer box room more coordinated with the surrounding environment. They can also be designed according to different needs, such as imitating wooden houses, landscape styles, etc., to improve the overall aesthetics.

Flexible design: There are various types of panels, providing more choices in making the box transformer shell. Designers can flexibly choose color steel composite panels of different materials, thicknesses and colors according to the actual needs of the project to meet different functional and aesthetic requirements.

