宏鑫源
HEADSTREAM

宏鑫源集团产品综合册

HEADSTREAM HOLDING GROUP PRODUCT CATALOG



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Linyi 36th Middle School Project
Taken in: 2024

COMPANY PROFILE

Founded in the 1990s and officially established in 2003, HEADSTREAM has become one of the most influential and rapidly growing brands in China's building materials industry. Its "metal-faced sandwich panels" have ranked first in domestic production and sales for years. The company is also a professional service provider and manufacturer of prefabricated building metal cladding systems and steel structure products.

HEADSTREAM Holding Group has established several domestic and international subsidiaries, including Jinnuo, Jingcheng, Jinpeng, and Yuanci, supplying building material systems for various fields such as industrial, civil, and public buildings, functional roofs, purification projects, and cold chain engineering. It is the only company in China to have received dual top-10 certifications for both "building walls and roofs" and "polyurethane products."

HEADSTREAM was the first to establish a nationwide network of physical factories, with six major manufacturing bases in Shandong, Chongqing, Anhui, Hubei, Guangdong, and Guangxi. It sources high-quality raw materials from both domestic and international supply chains, producing 20 million meters of composite panels annually. Since 2022, the company has rapidly expanded globally, establishing subsidiaries or production bases in over 10 countries across Southeast Asia, North Africa, South America, and the Middle East, implementing a global strategy to provide customized, professional, and high-quality products and services to clients worldwide.

6+
Smart Manufacturing Bases

8+
Overseas Branches

10+
Metal Enclosure Panel Production Lines

2000+ ten thousand m^2
Annual Production Capacity

10000+
Customers Worldwide



QUALIFICATIONS AND HONORS

HONORS

Top 10 Enterprises in China's Polyurethane Products Industry
Top 10 Competitively Strong Enterprises in China's Building Metal Roof (Wall) Panel Industry
National Intellectual Property Advantage Enterprise
High-tech Enterprise
National Technology-based SME (Small and Medium-sized Enterprise)
Shandong Province Quality Brand
Specialized, Refined, Characteristic, and Innovative SME
Shandong Province Enterprise for First Set (Unit) of Technical Equipment and Key Core Components
Leading New Materials Enterprise in Shandong Province
"Morning Star Factory" in Shandong Province's Digital Economy
One Enterprise, One Technology Center in Shandong Province
Dingling Enterprises in Binzhou City
Green Factory in Binzhou City

AUTHENTICATIONS

U.S. ASTM Product Certification
U.S. FM4880/FM4881 Certification
EU CE Certification
Malaysia CIDB Certification
Malaysia BS8414 (BOMBA) Certification
UK BS 476 Certification
Russia GOST Certification

ISO 14001 Environmental Management System Certification
ISO 9001 Quality Management System Certification
ISO 45001 Occupational Health and Safety Management System Certification

QUALIFICATIONS

GR1 Professional Contractor for Waterproofing, Anti-corrosion, and Insulation Projects
GR2 Professional Contractor for Building Curtain Wall Projects
GR2 Professional Contractor for Building Decoration and Renovation Projects
GR2 Professional Contractor for Steel Structure Projects
GR2 Professional Contractor for Building Electromechanical Installation Projects
GR2 Professional Contractor for Environmental Protection Projects
Safety Production License
Construction Labor Service Qualification

EDITOR-IN-CHIEF STANDARDS

CECS-《Edge-sealed Metal-faced Composite Panels for Buildings》
GB/T-《Metal-faced Insulated Sandwich Panels for Buildings》
T/CECA-G-《Carbon Emission Calculation Standard for Steel Structure Industrial Buildings》
《Cold Storage Insulation System Design and Construction Management Requirements》
《Metal-faced Sandwich Panel Manufacturer》

National Invention Patents **36+**
Utility Model Patents **97+**
Certified by National Authoritative Testing Agencies **105+**



CNNC R&D base
Taken in：2023

COMPANY PROFILE



Corporate Vision:

Become the most influential company in the construction metal material system

Corporate Mission:

To be the most competitive and socially responsible company in the industry

Corporate Core Values:

Honesty and Goodness, Cooperation and Win-win

Business Concept:

With our products, customers buy with confidence and use with ease

Work Standards:

Results-oriented, Compassionate, Innovative, Holistic Perspective

Employee Spirituality:

Authentic, Simple, Action-oriented, Efficient, Win-win

One Heart, One Nation

HEADSTREAM



Dedicate Love, Public Welfare Activities

HEADSTREAM



Colorful and Diverse Staff Activities

HEADSTREAM


Gala Torch Relay


Travel with Family


Summer BBQ Party


Children's Day Trip


Celebrate National Day


Spring Games

DEVELOPMENT HISTORY

壹 IN THE INITIAL STAGE OF ESTABLISHMENT

1991 Initial establishment of the company as a family-run operation

1999 Hongxin Materials Co., Ltd. was officially established, with 9 employees.

貳 FORMALLY ESTABLISHED

2003 HEADSTREAM was officially established, primarily engaged in the production of C-shaped steel and profiled steel plates.

2005 Develop composite panel production lines、and improve the company's supply chain.

2007 Launch coated and plated trade, developing into a private enterprise group integrating building steel product manufacturing and business circulation.

2010 Relocate to Xingfu Industrial Park, entering a new phase of development.

叁 INCREASE STEADILY

2011 Introduce PUMA production lines, and enter the energy-efficient panel production sector.

2015 The automatic manual purification panel project has been put into production and is now operational.

2018 Introduce the second Italian OMS energy-efficient panel production line, marking the company's rapid development phase.

肆 RAPID DEVELOPMENT

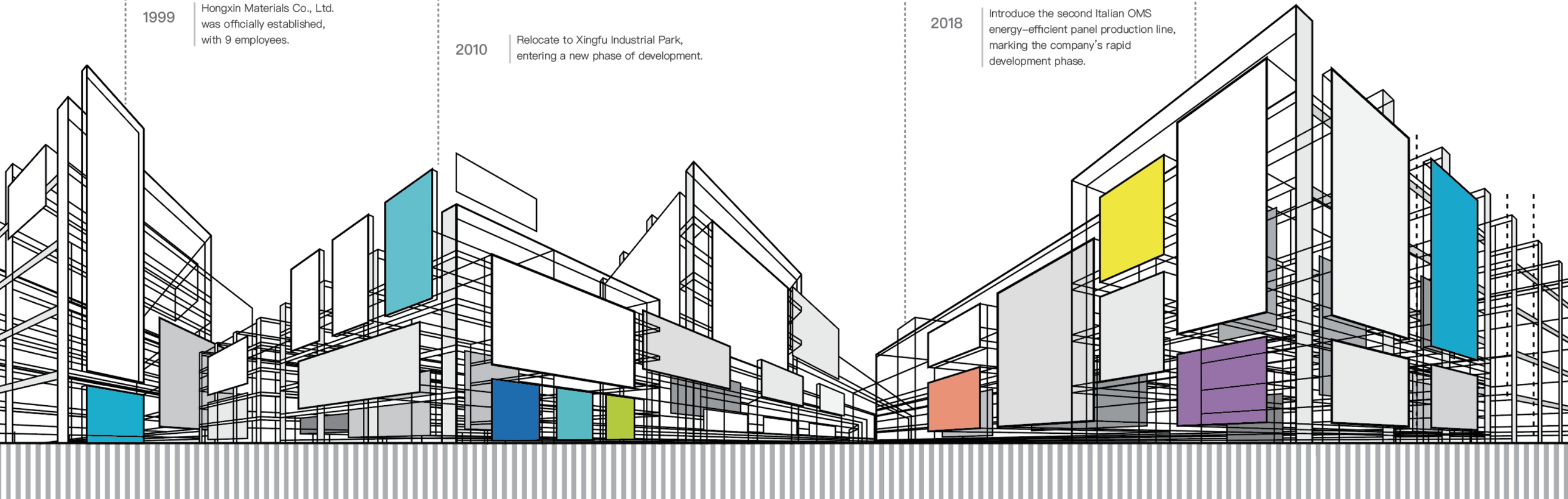
2019 Become the largest polyurethane energy-efficient panel supplier in China.

2020 Start nationwide expansion, with six major manufacturing bases in Shandong, Hubei, Chongqing, Anhui, Guangxi, and Guangdong.

2021 Shanghai Yuanci New Materials Company was established, forming a more advanced and professional technical team.

2023 Beijing branch established; Thailand branch established, officially entering the overseas market.

2024 Branches established in Malaysia, the Philippines, Indonesia, Algeria, and Egypt, and gradually improve global network layout.



OVERSEAS BUSINESS AND GLOBAL LAYOUT

海外业务分布

OVERSEAS BUSINESS DISTRIBUTION

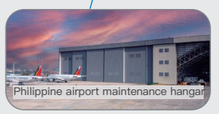
USA
Canada
USA
Mexico
Costa Rica
Panama
El Salvador
Columbia
Tobago
Suriname
Peru
Uruguay
Argentina
Chile
UK
Netherlands
Italy
Algeria
Egypt
Syria
Bahrain
Kuwait
Saudi Arabi
UAE
Oman
Ghana
Uganda
Zambia
Angola
Madagasca
Russia
Mongolia
Kazakhstan
Uzbekistan
Kyrgyzstan
Pakistan
Nepali
Bangladesh
India
Myanma
Thailand
Myanmar
Maldives
Malaysia
Singapore
Philippines
Indonesia
Australia
Japanese
Korea
South Korea
New Zealand

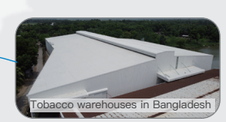

U.S. FSP Warehouse Phase I


Panama Exhibition Center


McDonald


Coal-fired power stations in Pakistan


Philippine airport maintenance hangar


Tobacco warehouses in Bangladesh


Auto Parts Factory in Thailand


Coal-fired thermal power station at Gudda, India

HEADSTREAM Overseas

8 Overseas Subsidiaries

Direct Sales to 50+ Countries and Regions

Over 10000 Instances of Customer Service Provided

Overseas Subsidiaries

Overseas Business Distribution

NATIONAL LAYOUT

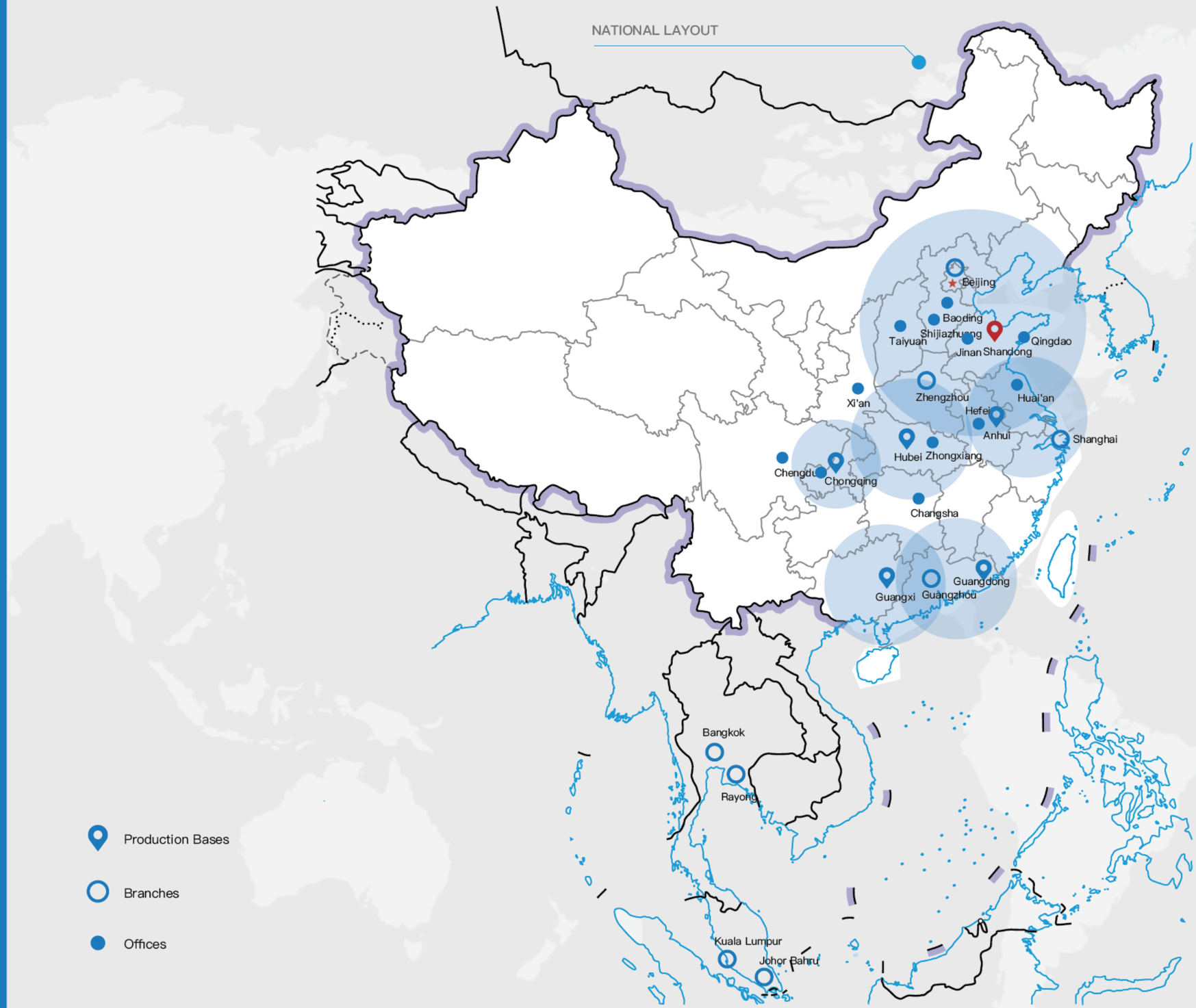
The only one in China
transport distance
between bases
maintained within

600KM

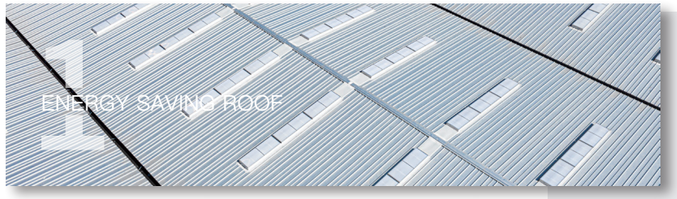
6 Production Bases

8 Overseas Branches

Over **20** Domestic Branches and Offices in China



PRODUCT SYSTEM



复合瓦® CompositeRoof®
依实瓦® InsulateRoof®
索拉瓦® SolarRoof®
沃特瓦® WaterPRoof®



比宜得® BeautFacade®
可旺得® QuadFacade®
易派® EasyPartition®
灵派® FlexPartition®



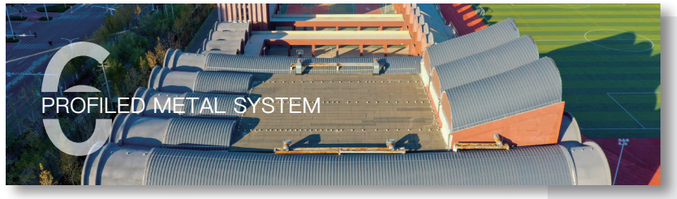
酷晶® ColdCrystal®



氪利洁® CleanPan®
氪利净® CleanBox®

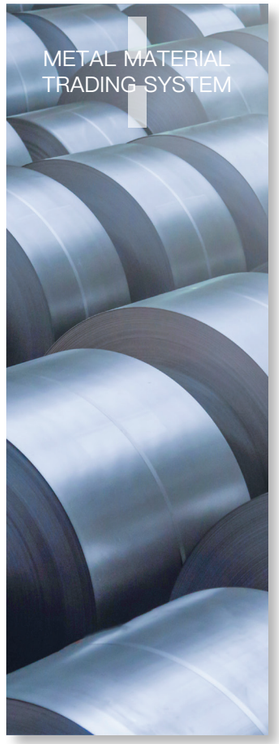


保利得® BoxFacade®

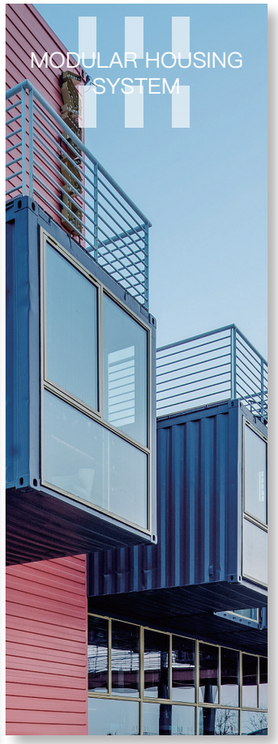


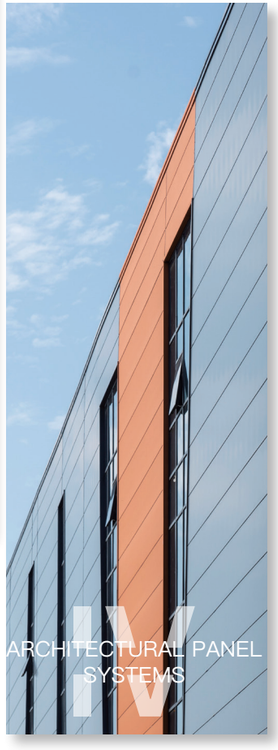
锁易顶® SeamLock75®　筋承® CloseDeck®
锁灵顶® SeamFlex65®　模承® OpenDeck®
多肋板® MultiribWall®　顶承® RoofDeck®
波肋板® WaveribWall®

BUSINESS FRAMEWORK











1 ENERGY SAVING ROOF

Zhengzhou Guoneng Battery
Taken in: 2020

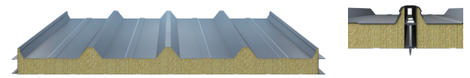
Roof Panel

复合瓦® CompositeRoof®

Metal Surface Roofing Composite Panels

Cap Type 950 Metal Roof Panel

HXY-FD-R-CapS950

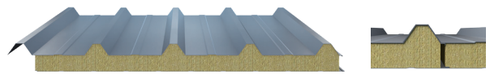


Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50-150	950	240	35	ROCK/XPS GLASS	钢板 /G250-350 外：0.5-0.6 内：0.4-0.6	 +250 +50

Lap Type 950 Metal Roof Panel

HXY-FD-R-LapS950T5

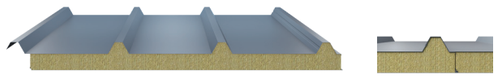


Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50-150	950	237.5	35	XPS/EPS	钢板 /G250-350 外：0.5-0.6 内：0.4-0.6	 +250 +50

Aussie Roof Panel / Aussie Corrugated Roof Panel

HXY-FD-R-LapS950T4



单位：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50-150	950	315	35	ROCK/XPS GLASS	钢板 /G250-350 外：0.5-0.6 内：0.4-0.6	 +250 +50

Product Characteristics

Lightweight Insulation

Core material: rock wool (120K), thermal conductivity 0.040, weight 15-30 kg/m².

Qick Installation

Lap connection with air cavity waterproof structure, 50% faster than similar roofs.

Aesthetic Design

Color-coated steel with various coatings (PE/SMP/HDP/PVDF) and AZM, offering 30+ years warranty.

High Strength Assembly

Multi-wave design reduces purlin steel use, 100% factory pre-fabricated for low-carbon, energy-efficient results.

Thickness	Weight	Moment of Inertia	Modulus of Rigidity	Supporting Condition	Thermal Conductivity	Load (kn/m²) / Purlin Spcing Allowed (mm)				
THK./mm	kg/m²	cm⁴	Mpa	Span condition	W/(m²·K)	1.0	1.5	2.0	2.5	3.0
50	15.52	103.46	1.5528	Double+	0.839	3000	2450	2150	1900	1750
75	18.32	211.74	1.5528	Double+	0.584	3750	2950	2500	2200	2000
100	21.12	358.39	1.5528	Double+	0.448	4500	3550	2950	2600	2300
150	26.72	766.78	1.5528	Double+	0.305	6000	4700	3900	3400	2950
Calculated base on 1000 modulus &0.6mm(outside)+0.6mm(inside)steel coil,Rockwool density is 120 kg/m3 Reference to appendix A of GB/T23932-2009 and appendix B of JGJT453-2019,Deflection limit=L/200										

《Technical Parameters and Load-bearing Capacity》

Item	Reference Standard	Class/Index Value
Fire resistance	《GB8624-2021 建筑材料及制品燃烧性能分级》	Class A1
Thermal conductivity	《GB/T25975-2018 建筑外墙外保温用岩棉制品》	0.040 W/(m·K)
Sound Reduction	《GB/T20247-2006 声学 混响室吸声测量》	13-40dB(400-1000Hz)

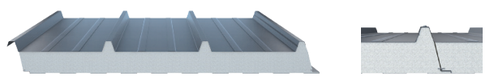
《Testing Standards》

Roof Panel

依实瓦® InsulateRoof®

Metal-faced Roofing Sandwich Panels

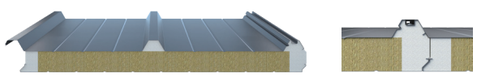
HXY-FD-R-LapSs36



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
30/40/50 60/75/80 100/125	1000	333.32	36	PU PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +70

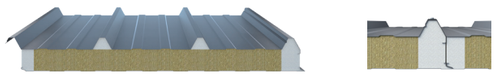
HXY-FD-R-CapHT



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50/55/75 80/85/100 120/150	1000	500	39	PU PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +85

HXY-FD-R-LapSv40



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50	950	317-316-317	40	PU PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +50

Product Characteristics

Lightweight Insulation

Core materials: PU-40K and rock wool-120K, thermal conductivity 0.020-0.040, total weight 15-30 kg/m².

Quick Installation

Lap connection with air cavity waterproof structure, ensuring fast, precise installation and 50% higher efficiency than similar roofs.

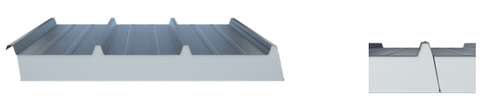
Aesthetic Design

Color-coated steel with PE/SMP/HDP/PVDF coatings for diverse architectural effects, paired with AZM coating for 30+ years warranty.

High Strength Assembly

Multi-wave design increases resistance and reduces steel usage in purlins. 100% factory pre-fabricated, promoting low-carbon and energy efficiency.

HXY-FD-R-LapSoft



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
20/40/ 50/60/ 75/100	1000	333.32	36	PU	钢板 + 铝箔 外：0.5-0.8 G250-350	 +200

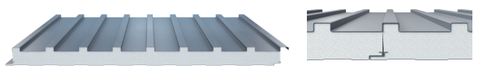
Product Characteristics

Corrosion Resistance

The inner panel uses aluminum foil/FRP, with a smooth, aesthetic surface that effectively resists high temperatures and corrosive environments.

Great Wall Roofing Panel

HXY-FD-R-LapGW



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
30/50/ 80	950	118.75	15	PU	铝板 外：0.3-1.0 内：0.3-1.0	+200 +50

Product Characteristics

Wind Resistance

The roof wall panels have strong resistance to positive and negative wind pressure, especially at corners and edges, where reinforced fastening can withstand high wind loads.

Insulation

Polyurethane has a low thermal conductivity of 0.019-0.024 W/m·K, making it an ideal insulation material. The design ensures excellent sealing and insulation performance.

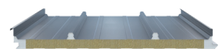
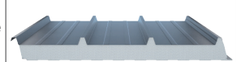
Quick Installation

Factory-prefabricated panels with a mature installation system, suitable for all-weather construction, reducing installation time, labor costs, and material waste.

Aesthetic Design

The panels use color-coated aluminum-magnesium-manganese alloy, simulating various modern metal building effects.

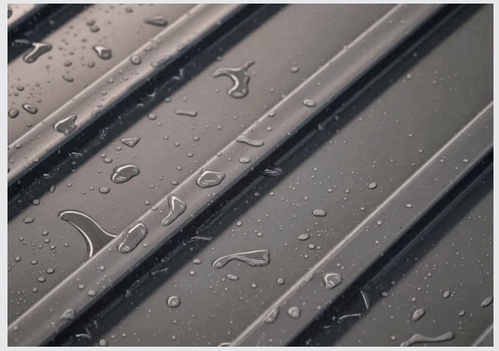
Core Material Selection – Thermal Parameters

Types	Diagram	Density kg/m³	Nominal Thermal Conductivity λ [W/(m·K)]	Thickness mm	Thermal ResistanceR m²·k/W	Thermal Conductivity [W/(m²·K)]
Rock Wool Roof Panel		120K	0.041	50	1.20	0.84
				75	1.71	0.58
				100	2.24	0.45
				150	3.27	0.31
				200	4.32	0.23
Polyurethane Roof Panel		38-43K	0.024	50	2.23	0.45
				75	3.28	0.31
				100	4.32	0.23
				150	6.40	0.16
				200	8.48	0.12
Glass Wool Roof Panel		⩾ 64K	0.035	50	1.34	0.75
				75	1.94	0.52
				100	2.53	0.40
				150	3.72	0.27
				200	4.92	0.21
Note：The heat transfer coefficient has been updated for most projects, excluding areas with hot summers and cold winters.						







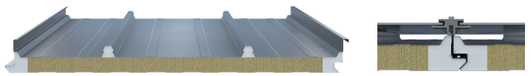


Roof Panel

索拉瓦® SolarRoof®

Metal-faced Photovoltaic Roof Sandwich Panels

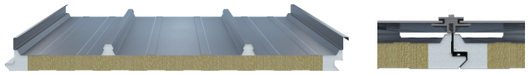
HXY-FD-R-360HN II



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50/75 100/120	1060	305-450-305	36	PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +250 +200

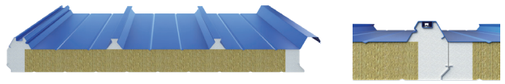
HXY-FD-R-360HN



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50/75 100/120	1000	275-450-275	36	PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +130

HXY-FD-R-CapHN



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50/80 100/120	1000	333-334-333	35	PU+GLASS PU+ROCK	钢板 /G250-350 外：0.5-0.7 内：0.4-0.6	 +250 +85

Product Characteristics

Lightweight Insulation

Core materials: PU-40K and rock wool-120K, thermal conductivity 0.020-0.040, total weight 15-30 kg/m².

Quick Installation

The roof panels use a 360° locking seam connection, with pre-applied adhesive at overlaps for fast, precise installation, improving efficiency by 50% compared to similar roofs.

Aesthetic Design

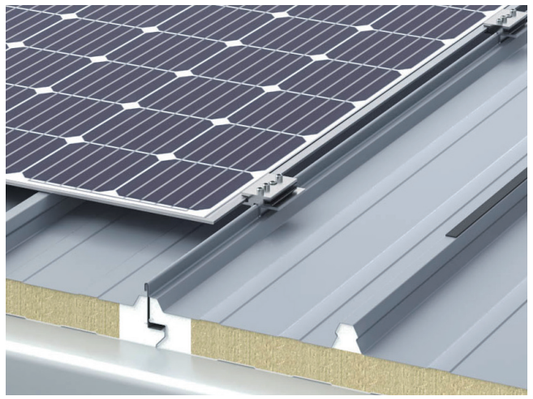
Color-coated steel with PE/SMP/HDP/PVDF coatings for varied architectural effects, paired with AZM coating for over 30 years of warranty.

High Strength Assembly

Four-wave corrugated design increases panel resistance and reduces steel use in purlins. 100% factory pre-fabricated, contributing to low-carbon and energy efficiency.

Pre-fabricated BAPV Interface

Necked mushroom-head peak design with reserved non-penetrating photovoltaic clamp connections.

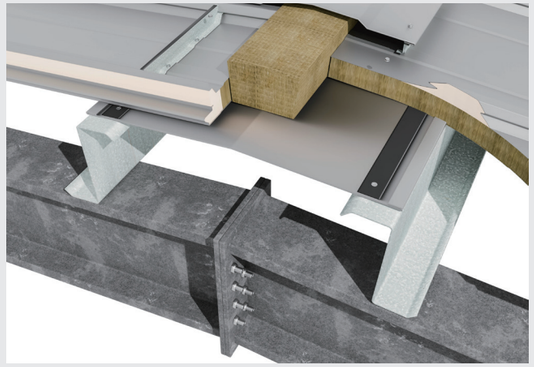


BIPV

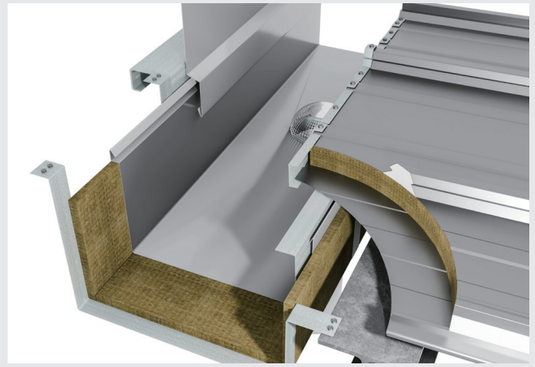


BAPV

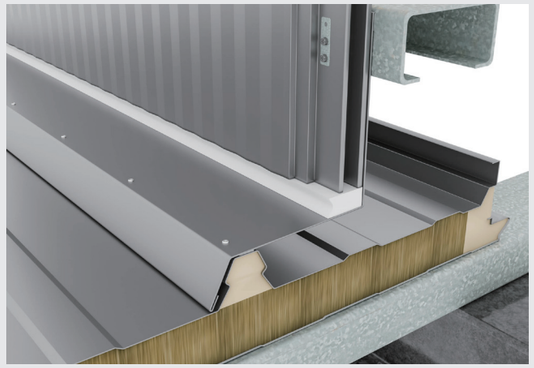
Details of SolarRoof System



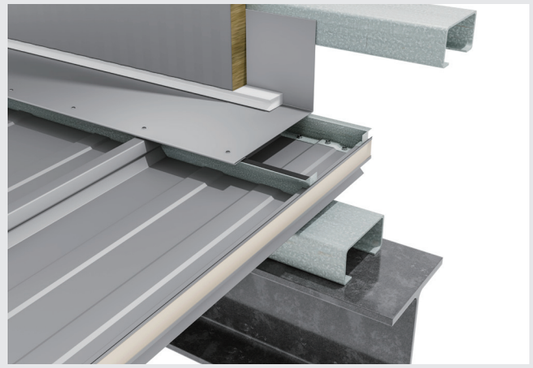
Roof Ridge Node



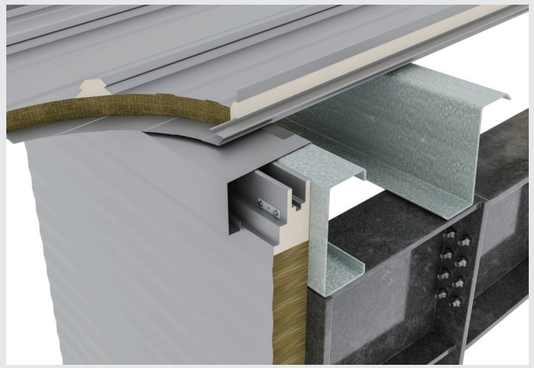
Gutter Node



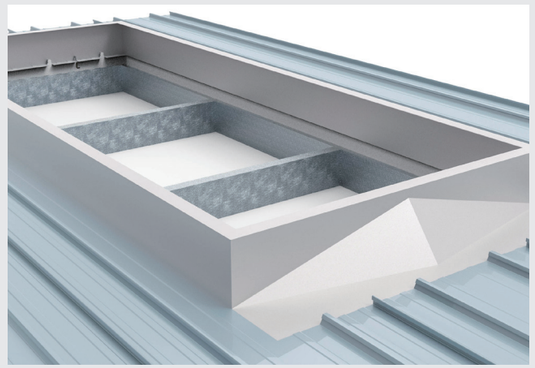
Hill Wall Node



High and Low Cross-node



Low Eave Node



Roof Opening Nodes

Roof Panel

沃特瓦® WaterPRoof®

Metal-Faced Waterproof Roofing Sandwich Panel

HXY-FD-R-DECKs36



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50-150	1000	333.32	36	PU+ROCK	钢板 /G250-350 底：0.5-0.8 面：0.5-0.8	+200 +70

HXY-FD-R-DECKs41



Unit：mm

Thickness	Width	Wave Pitch	Wave Height	Core	Surface	Material Width
50/75/ 100	1000	292	41	PU+ROCK	钢板 /G250-350 底：0.5-0.8 面：1.2-1.8	+250 +100 (TPO)

Product Characteristics

Lightweight Insulation

The core material is selected from insulating lightweight materials: rock wool with a thermal conductivity coefficient of 0.040 (120K). The product's overall weight is approximately 15-30 kg/m^2.

Architectural Effect

Color-coated steel plates (PE/SMP/HDP/PVDF) with AZM coating, offering over 30 years of warranty.

Primary Waterproofing

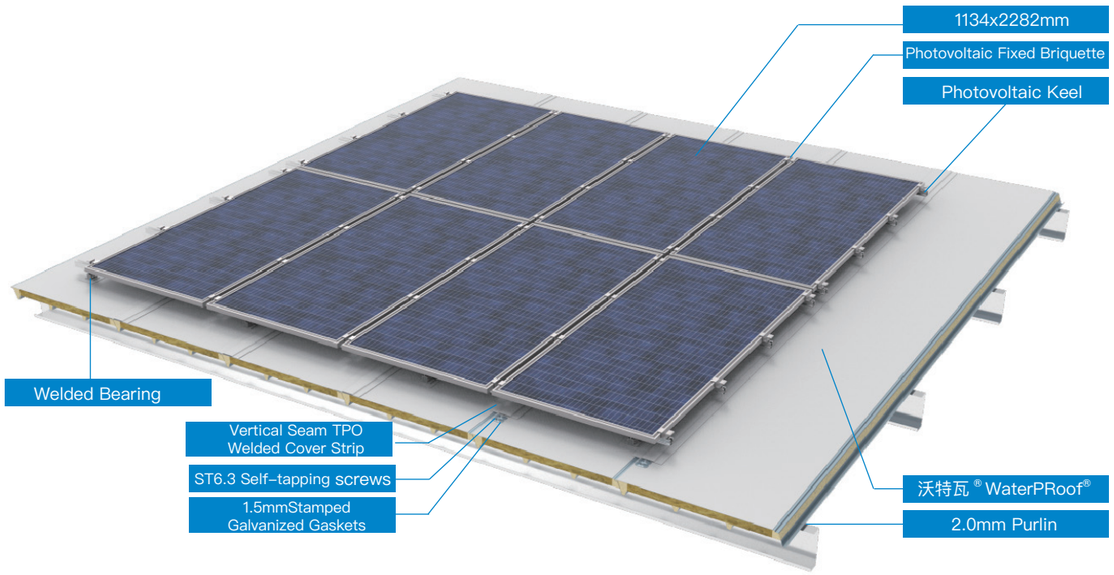
Factory-prepared TPO membrane, meeting first-class national waterproofing standards.

Construction Speed

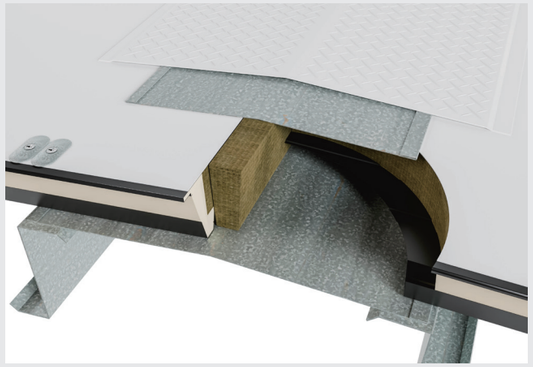
The roof panels are mechanically fixed with overlapping joints, and the TPO waterproof membrane is pre-fabricated in the factory. The overlap joints are 100% heat-welded. This method increases efficiency by 50% compared to similar roofing systems.

High-Strength Assembly

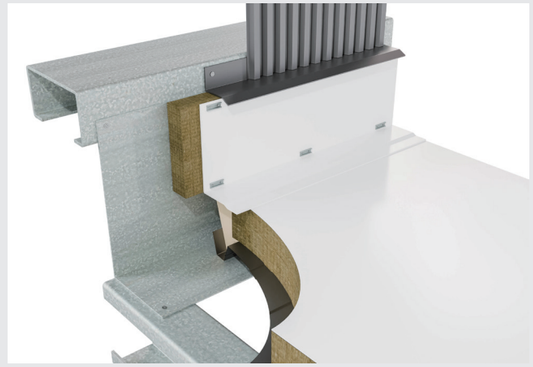
The four-wave corrugated design enhances panel strength and reduces purlin steel usage. Fully pre-fabricated, contributing to low carbon and energy savings.



Details of WaterPRoof System



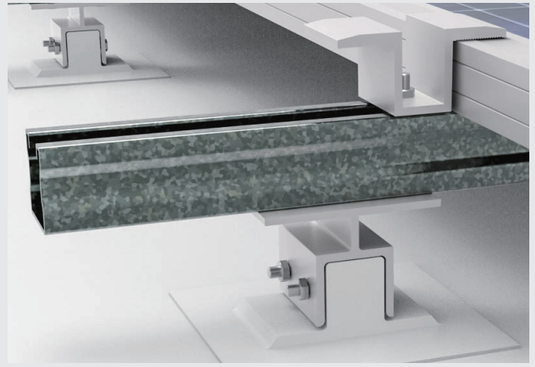
Roof Ridge Node



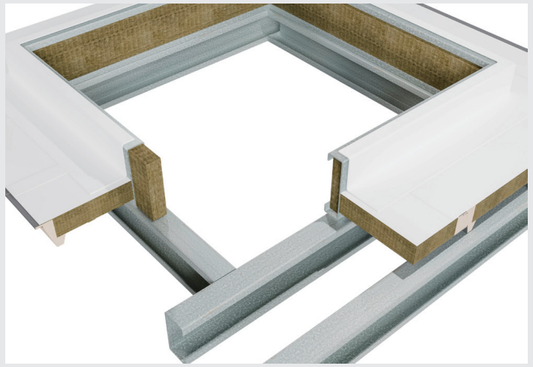
Gutter Node



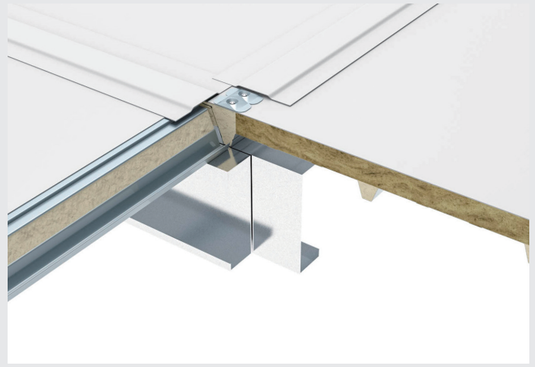
Side Gutter Nodes



Photovoltaic Installation Node



Roof Opening Nodes

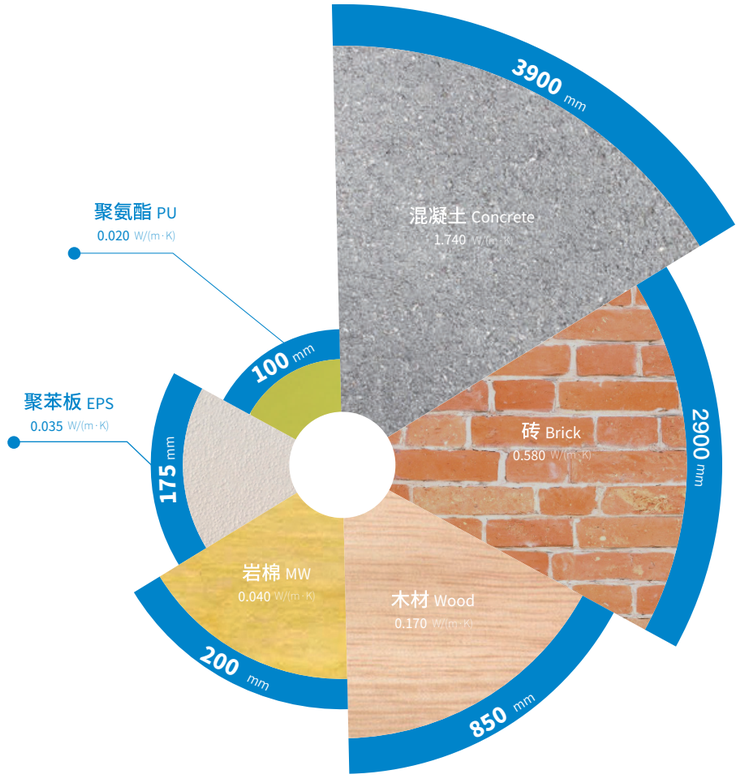


Docking Installation Nodes

2 INDUSTRIAL EXTERIOR WALL

Biddy's Medical Project, USA
Taken in: 2023

Comparison of Different Thicknesses with the Same Insulation Effect

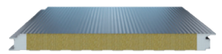


SANDWICH PANELS are made from various materials rolled and bonded under high pressure, sandwich panels are lightweight, energy-efficient building materials.

SANDWICH PANELS offer fireproof, moisture-proof, heat-insulating, and soundproof qualities, meeting diverse building needs.

SANDWICH PANELS give full play to the high strength of metal materials, high toughness, weather resistance and a variety of thermal insulation core material low thermal conductivity characteristics of integrated prefabrication.

SANDWICH PANELS offers a wide range of choices and styles that are modern and antique, with outstanding architectural effects and strong expressive qualities.

Types	Diagram	Density kg/m^3	Nominal Thermal Conductivity λ [W/(m·K)]	Thickness mm	Thermal ResistanceR m^2·k/W	Thermal Conductivity [W/(m^2·K)]
Rock Wool Roof Panel		120K	0.041	50	1.20	0.84
				75	1.71	0.58
				100	2.24	0.45
				150	3.27	0.31
				200	4.32	0.23
Polyurethane Roof Panel		38–43K	0.024	50	2.23	0.45
				75	3.28	0.31
				100	4.32	0.23
				150	6.40	0.16
				200	8.48	0.12
Glass Wool Roof Panel		⩾ 64K	0.035	50	1.34	0.75
				75	1.94	0.52
				100	2.53	0.40
				150	3.72	0.27
				200	4.92	0.21
Note: The heat transfer coefficient has been updated for most projects, excluding areas with hot summers and cold winters.						

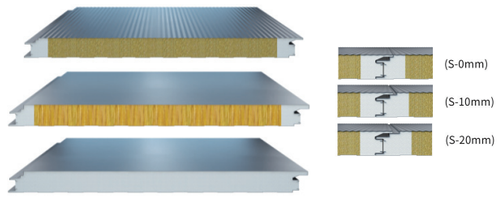
Wall Panel

比宜得® BeautFacade®

Metal Face Hidden Fastener Two-Edge Groove Sandwich Panel

HXY-FD-W-UH

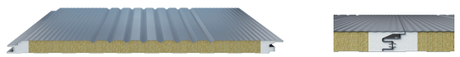
FM APPROVED



Unit：mm

Thickness	Width	Core	Surface	Material Width
40/50/60/ 65/75/80/ 100/120/ 150/200	400-1200	PU PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +70

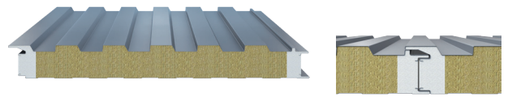
HXY-FD-W-UHV8



Unit：mm

Thickness	Width	Core	Surface	Material Width
40/50/60/ 65/75/80/ 100/120/ 150/200	900-1200	PU PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +250 +70

HXY-FD-W-UHG6



Unit：mm

Thickness	Width	Core	Surface	Material Width
50-200	860	PU PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +340 +70

Product Characteristics

Lightweight and High Strength

Made from a combination of different materials, formed by rolling and high-pressure bonding, resulting in a solid, lightweight, energy-efficient building material.。

Superior Performance

Interlocking cavity design offers fire, moisture, heat, and sound insulation, meeting building needs.

Aesthetic Appeal

Various styles, from modern to classic, offering outstanding architectural effects and strong visual impact.

Easy Installation

Large panels with plug-in installation, factory prefabricated, quick construction, and high installation quality.

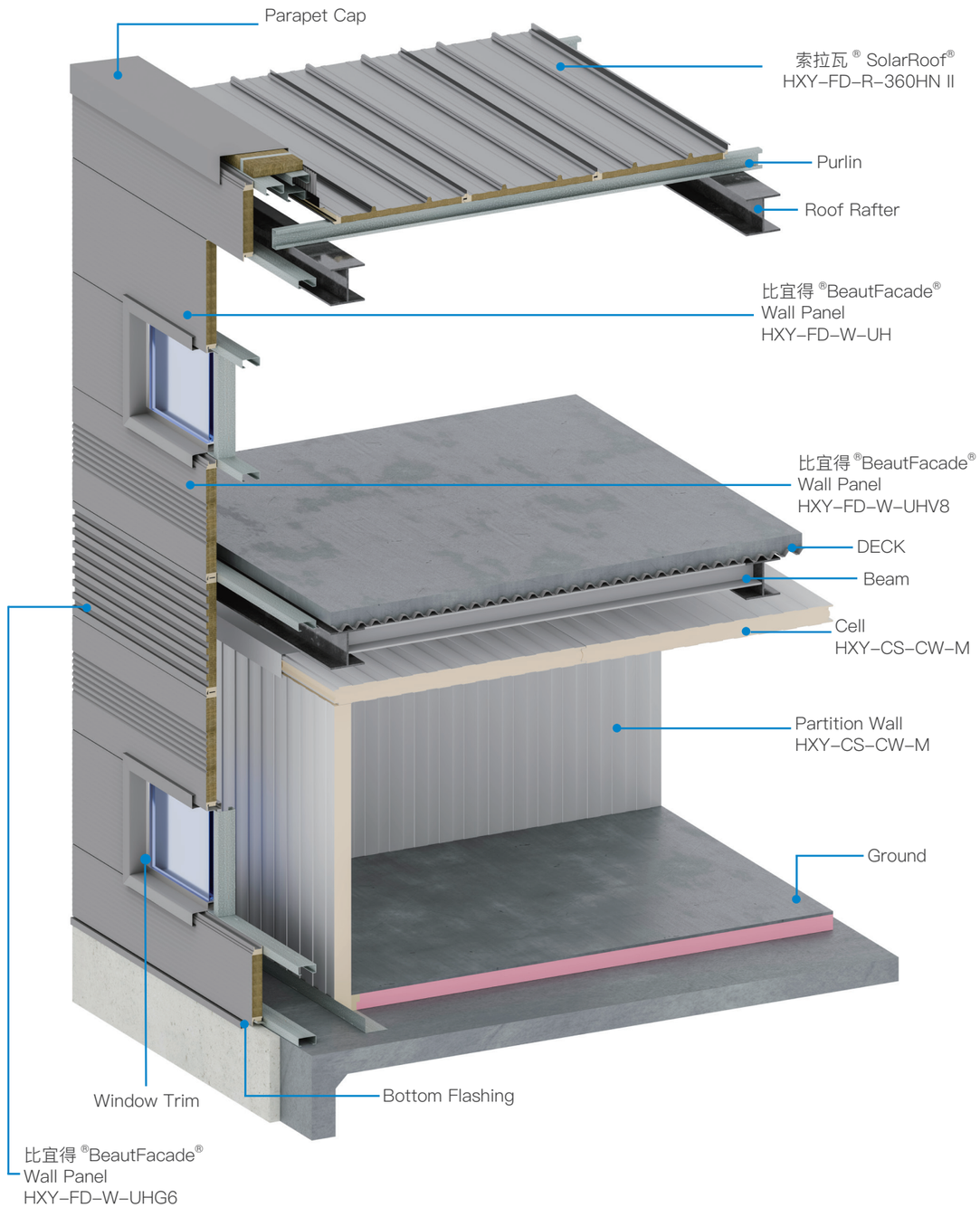
Thickness	Weight	Moment of Inertia	Modulus of Rigidity	Supporting Condition	Thermal Conductivity	Load (kn/m²) / Purlin Spcing Allowed (mm)				
THK./mm	kg/m²	cm⁴	Mpa	Span condition	W/(m².K)	1.0	1.5	2.0	2.5	3.0
50	15.79	76.73	2.04	Double+	0.839	2700	2100	1700	1400	1200
75	18.59	172.65	2.04	Double+	0.584	3750	2950	2400	2050	1750
100	21.39	306.93	2.04	Double+	0.448	4700	3700	3050	2650	2300
150	26.99	690.60	2.04	Double+	0.305	6400	5150	4300	3700	3250
Calculated base on 1000 modulus &0.6mm(outside)+0.6mm(inside)steel coil,Rockwool density is 120 kg/m3 Reference to appendix A of GB/T23932-2009 and appendix B of JGJT453-2019,Deflection limit=L/200										

《Technical Parameters and Load-bearing Capacity》

Item	Reference standard	Class/Index value
Fire resistance	《GB8624-2021 建筑材料及制品燃烧性能分级》	Class A1
Thermal conductivity	《GB/T25975-2018 建筑外墙外保温用岩棉制品》	0.040 W/(m·K)
Sound Reduction	《GB/T20247-2006 声学 混响室吸声测量》	13-40dB(400-1000Hz)
Air Leakage	《GB/T15227-2019 建筑幕墙气密·水密	Class 4($m^3/m^2.h$)
Water Permeability	抗风压性能检测方法标准》	Class 5(2000 Pa)
Wind resistance	《GB/T21086-2007 建筑幕墙》	Class 9($p_3 \geqslant 5.0kPa$)
Interlayer deformation	《GB/T18250-2015 建筑幕墙层间变形性能分级及检测方法》	Class 4($1/150 \leqslant \gamma x < 1/100$)

《Testing Standards》

Details of BeautFacade System

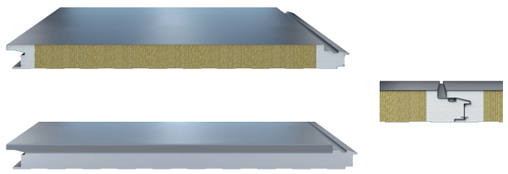


Wall Panel

可旺得® QuadFacade®

Four-Edge Groove Industrial Curtain Wall Panels

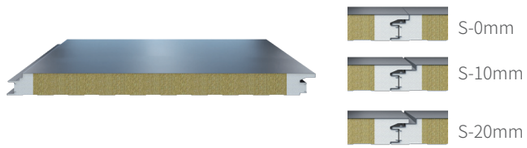
HXY-FD-W-LHEB



Unit：mm

Thickness	Width	Core	Surface	Material Width
50/60/75 80/100/120	400-1200	PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +70

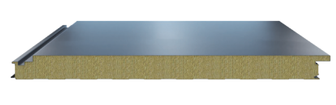
HXY-FD-W-UHEB

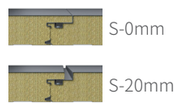


Unit：mm

Thickness	Width	Core	Surface	Material Width
50/75 100	400-1200	PU PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +70

HXY-FD-W-SHEB





Unit：mm

Thickness	Width	Core	Surface	Material Width
50/75/80 100/120	400-1200	PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +200 +85

Product Characteristics

Lightweight and High Strength

Made from a combination of different materials, formed by rolling and high-pressure bonding, resulting in a solid, lightweight, energy-efficient building material.。

Superior Performance

Interlocking cavity design offers fire, moisture, heat, and sound insulation, meeting building needs.

Aesthetic Appeal

Special folded edge treatment at the ends, offering water-proof, corrosion resistance, and achieving curtain wall-grade performance.

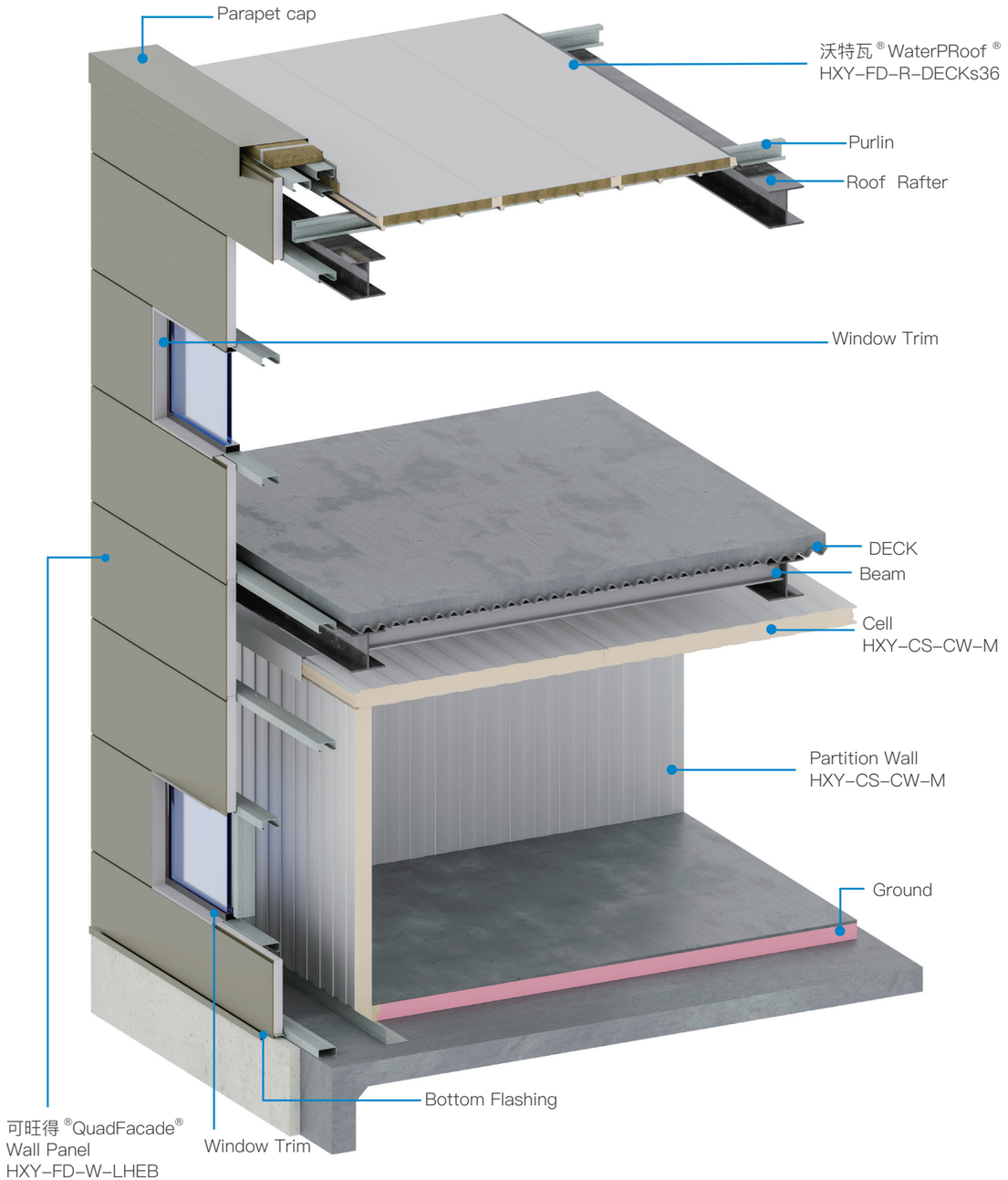
Easy Installation

Large panels with plug-in installation, factory prefabricated, quick construction, and high installation quality.



BOE Project
Taken in：2022 年

Details of QuadFacade System

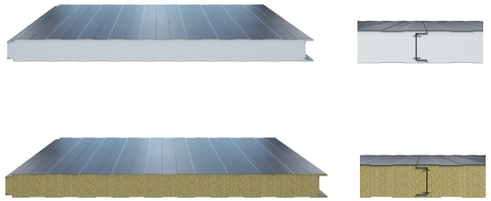


Wall Panel

易派® EasyPartition®

Metal Face Screw-Fixed Two-Edge Groove Sandwich Panel

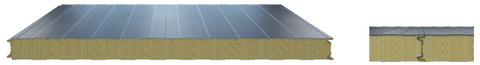
HXY-ID-CW-US



Unit：mm

Thickness	Width	Core	Surface	Material Width
30/35/40/50 60/70/75/80 90/100/120 250	400-1130	PU PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +70 +70

HXY-ID-CW-MS



Unit：mm

Thickness	Width	Core	Surface	Material Width
70/100	400-1100	PU+ROCK PU+GLASS	钢板 /G250-350 外：0.5-0.8 内：0.4-0.6	 +100 +100

Wall Panel

灵派® FlexPartition®

Metal Face Screw-Fixed Two-Edge Groove Sandwich Panel

Aussie Interlocking Composite Panel/

Aussie Z-Lock Wall Panel



Unit：mm

Thickness	Width	Core	Surface	Material Width
40-150	950-1150	ROCK GLASS EPS	钢板 /G250-350 外：0.5-0.6 内：0.4-0.6	 +50 +50

Flat Interlocking Composite Panel/

Flat-Lock 1000/1200 Metal Wall Panel



Unit：mm

Thickness	Width	Core	Surface	Material Width
25-200	500-1200	XPS/EPS	钢板 /G250-350 外：0.5-0.7 内：0.4-0.6	 +0 +0

* Cotton core sizes above 75 thickness cannot exceed 8 meters.

Product Characteristics

Self-Supporting Insulation and Sound Absorption

Ideal for interior walls and ceilings in buildings, as well as wall panels for movable container houses, offering an economical and practical solution.

Internal Wall Ceiling Partition Board



Product Characteristics

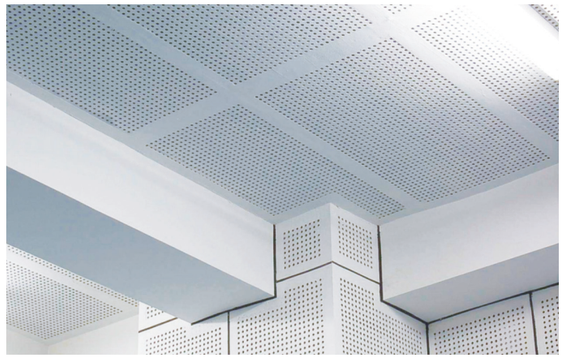
Self-supporting structure, enterprise mouth plug connection, safe and convenient.

Variety of core materials to adapt to various functional needs.

Variety of surface materials to adapt to various application environments.

Variety of modulus options, to adapt to a variety of building sizes.

Sound-Absorbing Panel



Product Characteristics

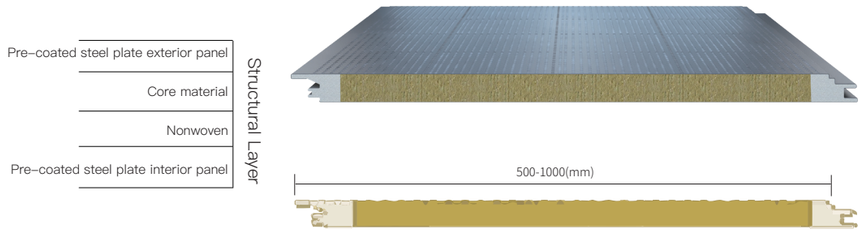
Through the combination of perforated inner plate, many sets of experimental tests.

It has been proved that it can effectively reduce the reverberation noise in the room.

Through the combination of different thicknesses and weights of core materials can effectively realize the sound insulation effect of 13-40 dB.

Prefabricated integrated supply, fast on-site construction, cost-effective product.

Product Compositions



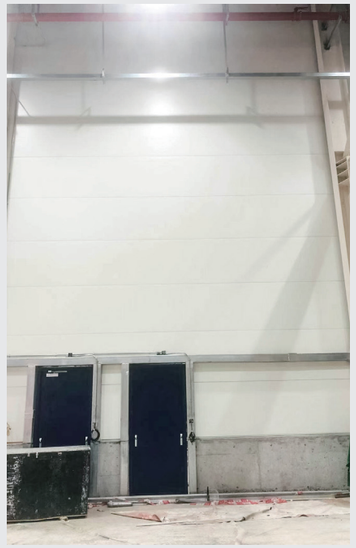
No Purlin System

MARS

Mars Wrigley Ice Cream Factory Project



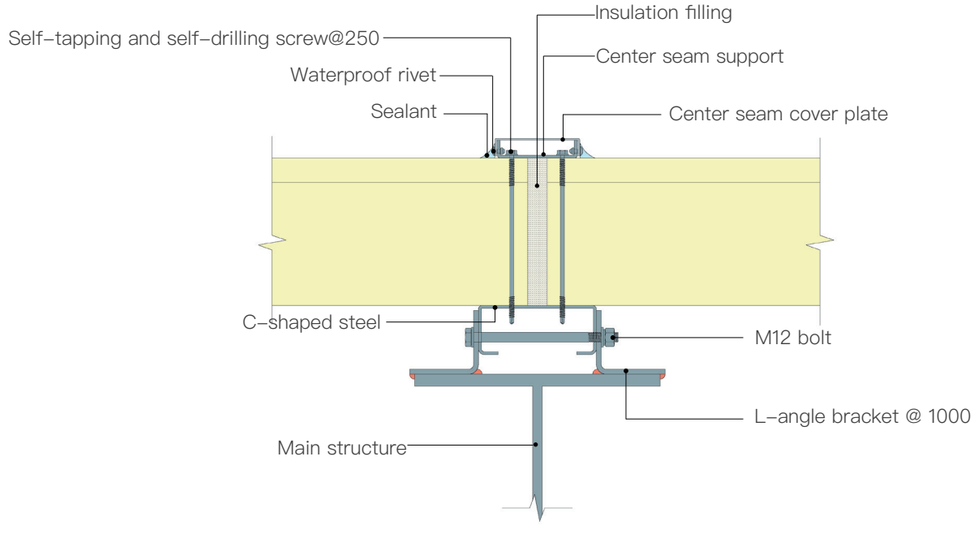
Single-span Installation



Internal Effects



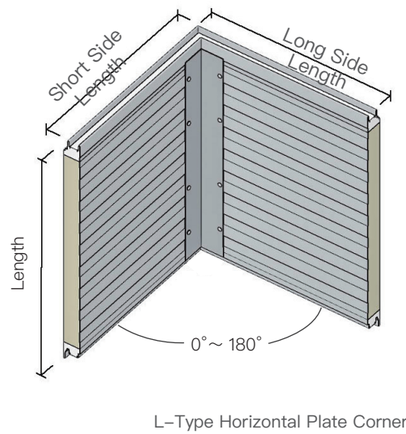
Center Seam Node



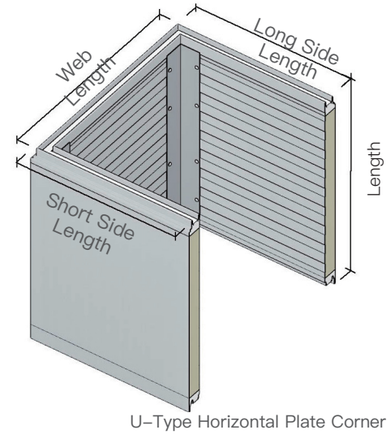
Detailed drawing of center seam joint

Corner Plate/Circular Plate Profiled Plate Processing

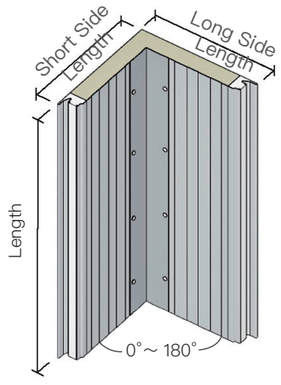
Type	Short Side Length mm	Long Side Length mm	Web Length mm	Length mm
L-Type Horizontal Plate Corner	⩾ 3 Times the Panel Thickness	Transportation Limitations	0	Panel Width
L-Type Vertical Plate Corner	⩾ 3 Times the Panel Thickness	Width – Short Side	0	⩽ 6000
U-Type Horizontal Plate Corner	⩽ 2000	⩽ 2000	⩾ 500	Panel Width
Curved Corner (Horizontal/ Vertical)	R_{min}			Arc Length mm
	0.5M (Thickness ⩽ 50mm)/0.75M (Thickness > 50mm)			⩽ 5000



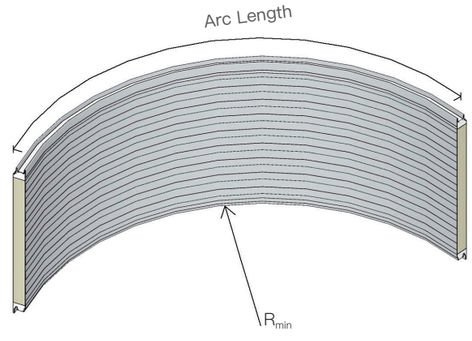
L-Type Horizontal Plate Corner



U-Type Horizontal Plate Corner



L-Type Vertical Plate Corner



Curved Corner

Factory Prefabricated

3 ENERGY SAVING COLD STORAGE

Cold Storage Panel

Product Advantages



Agricultural Products International Cold Chain Trading Center, China
Taken in: 2023

保温性能优异 | 防火性能良好 | 戊烷技术领先 | 专有气密技术 | 节能降耗环保 | 安装简便快捷

Product Characteristics

Excellent Thermal Insulation Performance

Thermal conductivity ranges from 0.019 to 0.024 W/m•K (at 25 ° C), the lowest among insulation materials. Using high-pressure continuous foaming, it features uniform, dense foam with a closed-cell structure, achieving over 97% closed-cell rate and low water absorption, providing superior thermal resistance.

Good Fire Resistance

Polyurethane foam forms a carbonized layer during combustion, preventing melting or dripping like EPS or XPS. Combined with metal facing, it further improves fire resistance, meeting national fire standards (GB 8624-2012 Class B1).

Advanced Pentane Technology

Using fluorine-free materials for high-pressure foaming, it produces no CFCs, with zero greenhouse effect, and complies with international environmental standards.

Air-tight Technology

The proprietary design ensures seamless panel integration, preventing "cold bridges" and improving air-tightness, perfect for modified atmosphere storage.

Energy-efficient and Eco-friendly

Panels meet strict environmental standards, resist bacteria and pests, and save 30% energy, reducing operational costs.

Easy Installation

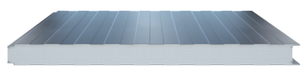
Pre-fabricated panels and efficient installation reduce time, labor, and material waste.

Wall Panel

酷晶® ColdCrystal®

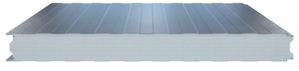
Metal-Faced Cold Storage Sandwich Panel

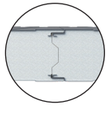
HXY-CS-CW-U



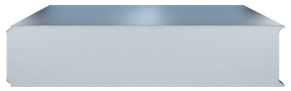


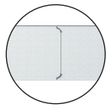
HXY-CS-CW-M FM APPROVED





HXY-CS-CW-C





Technical Parameters

Sheet Specification	Width	450-1120mm
	Thickness	30~250mm
	Length	Transportation Limitations
Panel Specification	Material	Colored Coated Steel Plate、Galvalume Steel Sheet 、Stainless Steel Plate
	Thickness	0.4 ~ 0.8mm
	Coating	PE 、HDP、SMP、PVDF
PU Core Material (PIR)	Fire Rating	B1 GR (Oxygen Index ⩾ 30%)
	Closed Cell Rate	⩾ 97%
	Water Absorption Rate	⩽ 3%
	Thermal Conductivity	0.019-0.024
	Heat Resistance Range	-196℃ +160℃
	Compressive Strength	⩾ 120kpa

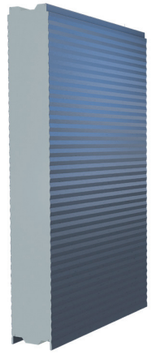
Rib Pattern



平直压筋



光面纯平

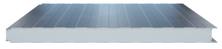


丽水波纹

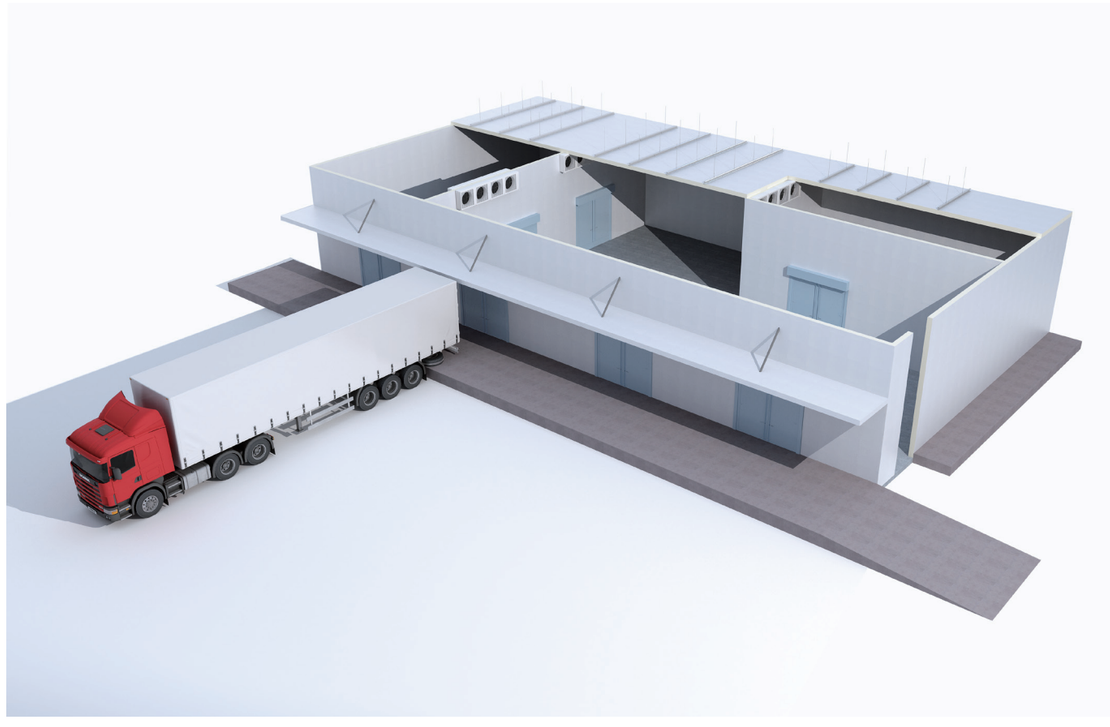


桔纹压花

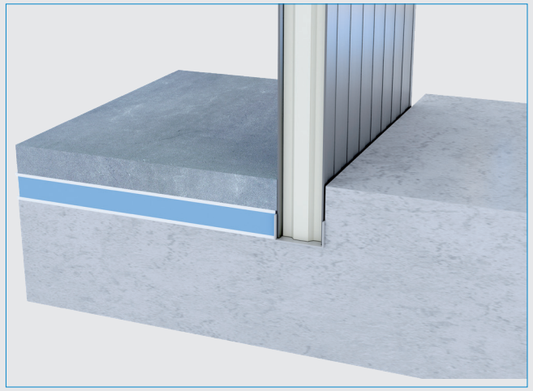
Thermal Parameters

Types	Diagram	Density kg/m³	Nominal Thermal Conductivity λ [W/(m·K)]	Thickness mm	Thermal Resistance $m^2 \cdot k/W$	Thermal Conductivity $[W/(m^2 \cdot K)]$
PU Sandwich Panel		38-43K	0.024	50	2.23	0.45
				75	3.28	0.31
				100	4.32	0.23
				150	6.40	0.16
				200	8.42	0.12
				250	11.02	0.09
Note：The heat transfer coefficient has been updated for most projects, excluding areas with hot summers and cold winters.						

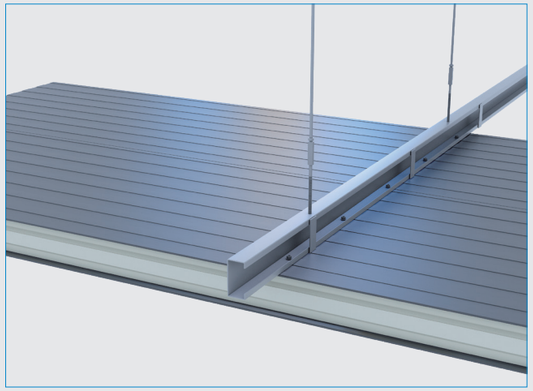
Cold Storage Construction Schematic Diagram



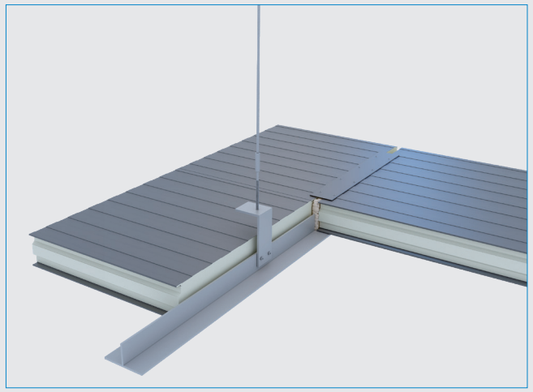
Details of ColdCrystal System



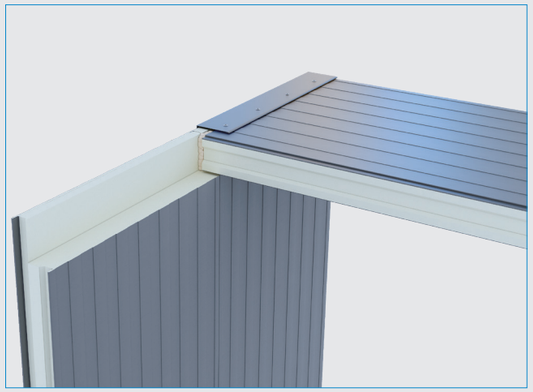
Vertical Panel Fixation



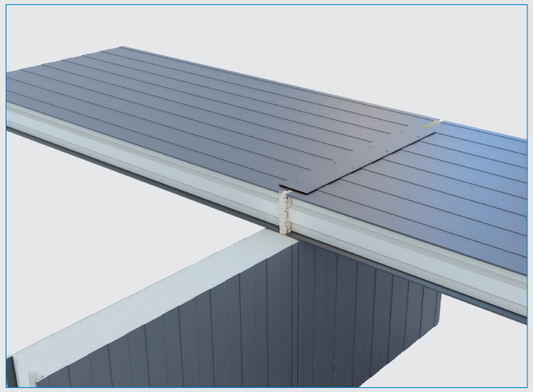
Ceiling installation (hidden frame)



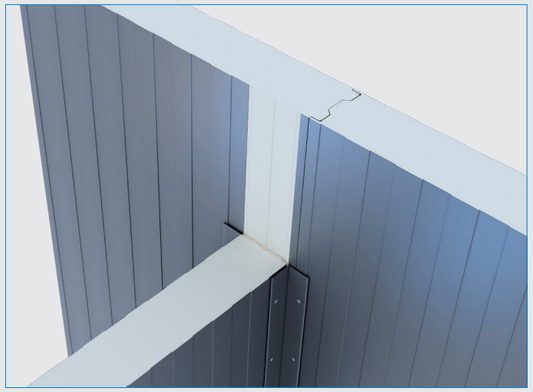
Ceiling installation (exposed frame))



Connection between the ceiling panel and wall panel

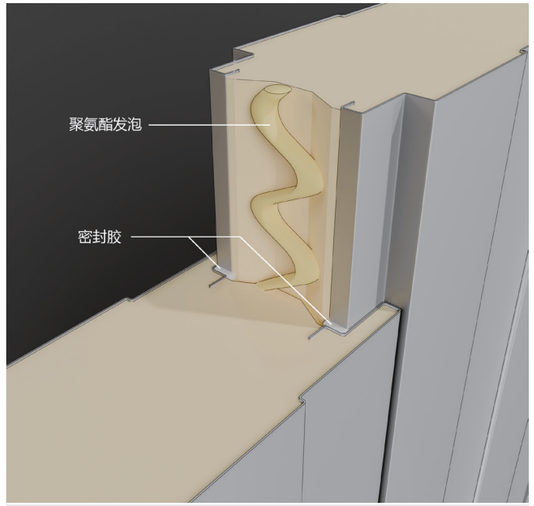


Partition wall panel and ceiling panel

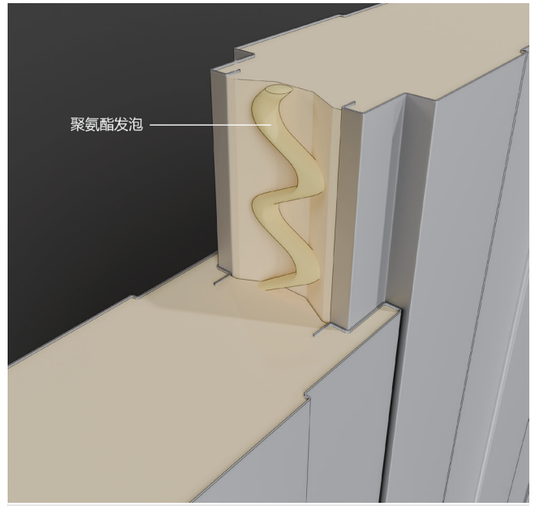


Partition wall panel and wall panel

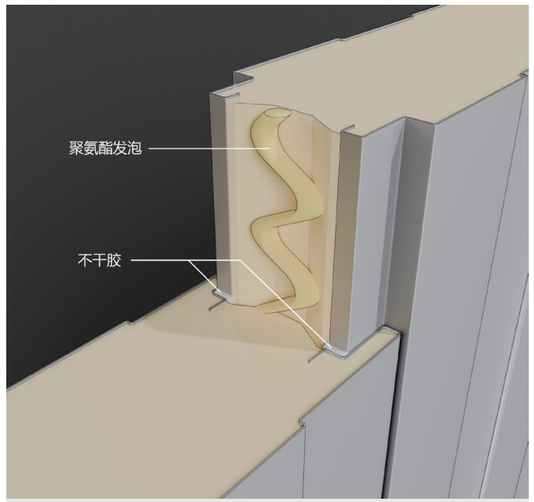
Sealing Method of the Jionts



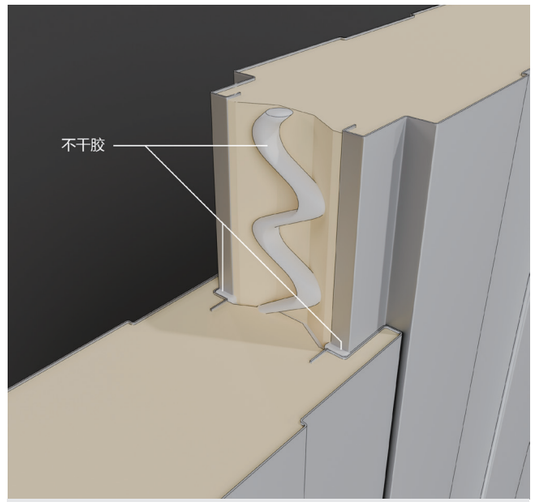
J1：Sealant + Foam agent + Sealant adhesive



J2：Foam agent

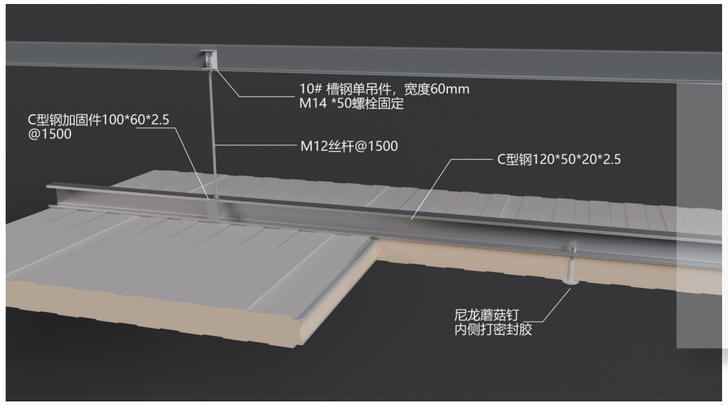


J3：Adhesive tape + Foam agent + Adhesive tape



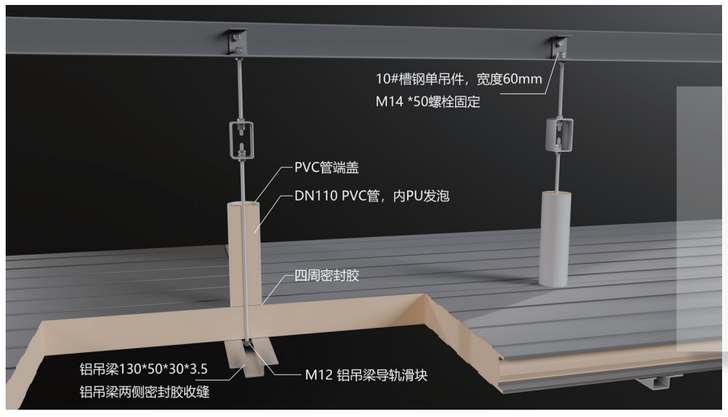
J4：Adhesive tape

Hanging Method of the Sencond Structure



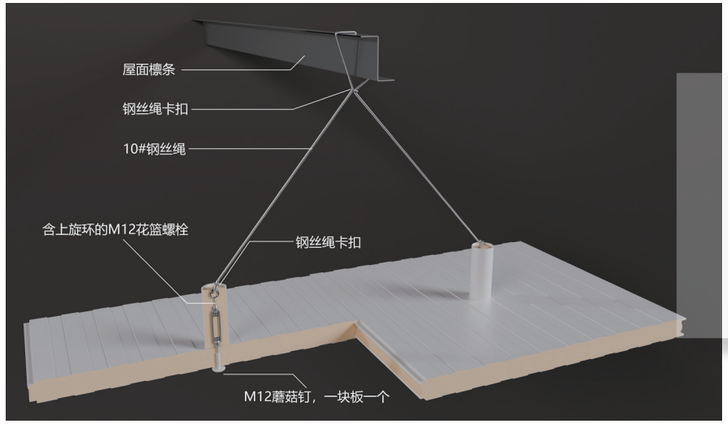
H1

Auxiliary suspension uses
C120 steel
+
M12 Threaded rod



H2

Auxiliary suspension uses
aluminum beam
+
M12 Threaded rod

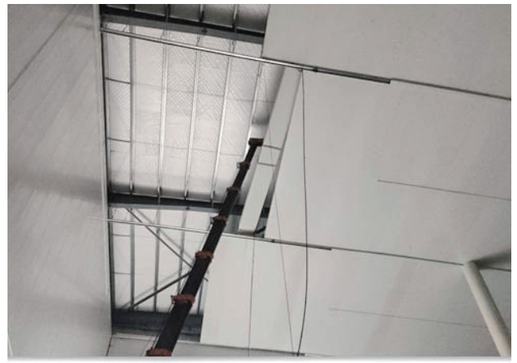


H3

Auxiliary suspension uses
Φ10 steel wire rope
+
Mushroom nails

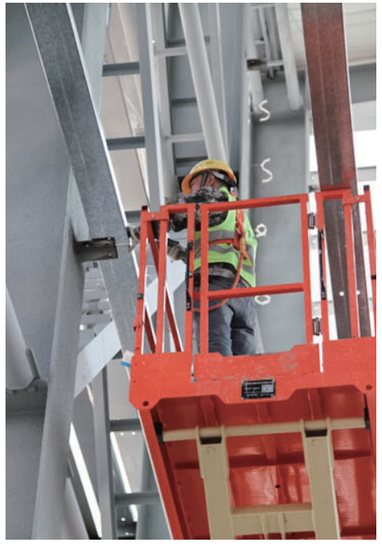
Construction Details











4 CLEAN SYSTEM

HAILIR Project
Taken in: 2020

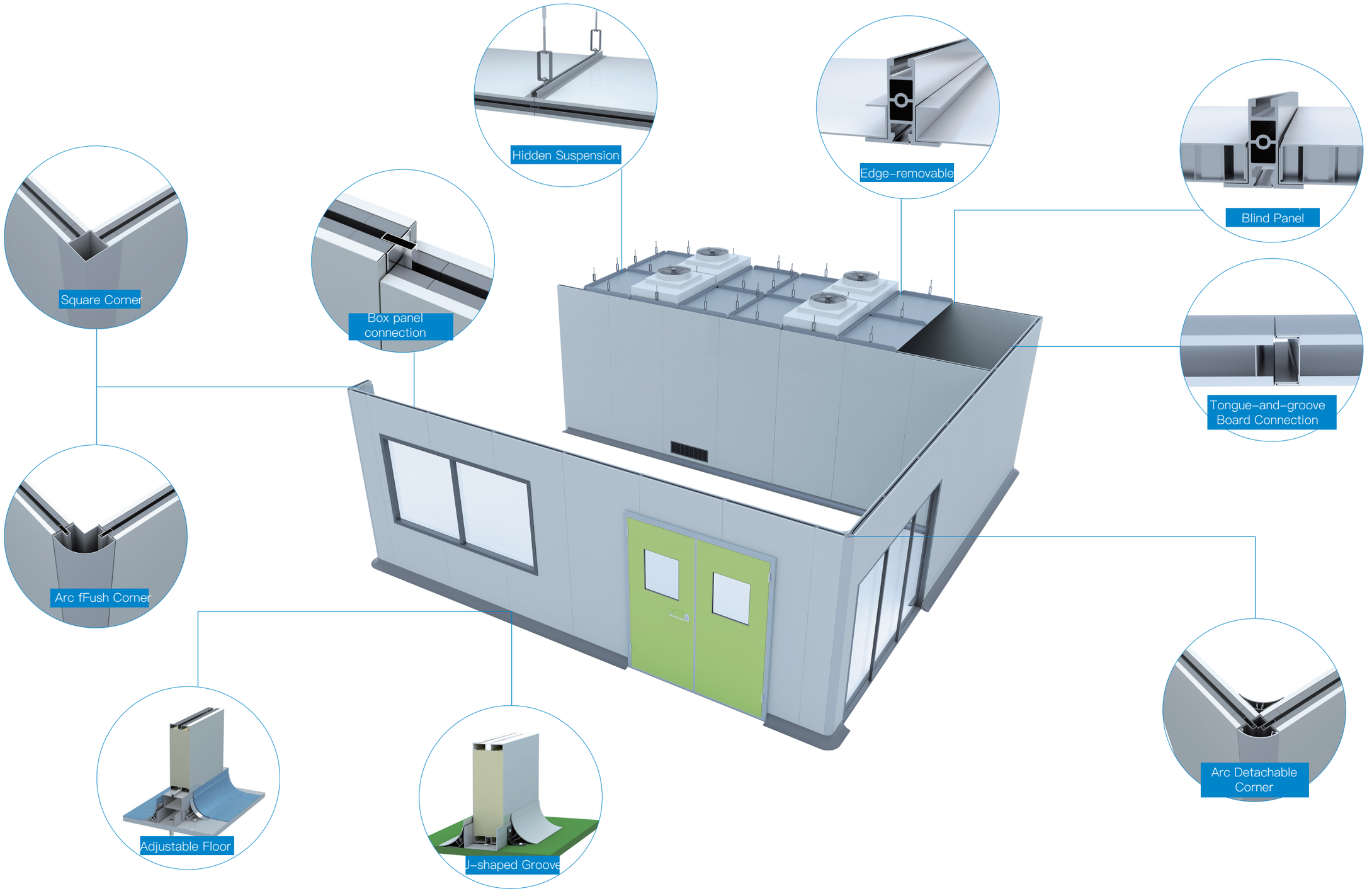
Product Characteristics

Low building load, lightweight and energy-efficient.
Fireproof, flame-retardant, earthquake-resistant, soundproof, moisture-resistant, antistatic, mold-resistant, detachable, energy-saving, and environmentally friendly.
The middle layer of the wall panel can accommodate wiring and piping, achieving a stylish and integrated indoor environment for hospitals.
Increases usable space with adjustable wall thickness, flexible layout, and cost-saving maintenance and renovation.
Aesthetic, clean, and comfortable, ready for immediate use with minimal waste, promoting environmental protection and resource efficiency.



ABSORPTION MAKES PROFESSION

Details of CleanRoom Panel System

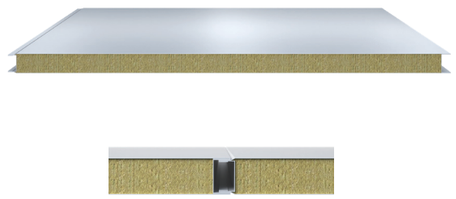


CleanRoom Panel

氪利洁® CleanPan®

Mechanically Clean Panel

HXY-CB-CW-UMM



Unit：mm

Thickness	Width	Core Material	Surface Material
50 ~ 100	950-1150	Rock Wool Board Sulfur Magnesium Board Silica Rock Board Foam Board Paper Honeycomb Board Glass-magnesium grid board	Color-coated steel plate or stainless steel plate Coating — Z/AZ/AZM Coating — PE/PVDF/HDP/SMP Function — Anti-static / Anti-bacterial

Product Characteristics

Good Air-tightness

Interior ceiling and wall partitions with good air tightness.

Large-span Support

Purification panels use different core material combinations, providing high overall load-bearing capacity.

Horizontal/Vertical Installation

Can be installed horizontally or vertically, offering flexible application.

Applicable Scenarios

Suitable for clean rooms with cleanliness requirements.

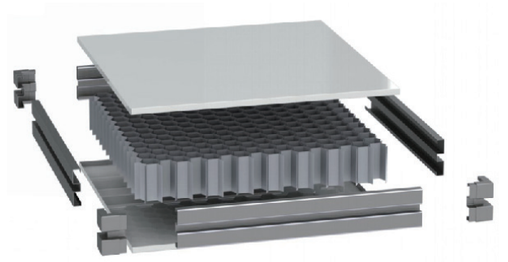


CleanRoom Panel

氪利净® CleanBox®

Manually Clean Panel

HXY-CB-CW-MMH



Unit：mm

Thickness	Width	Core Material	Surface Material
50/60/75/100	100 ~ 980/1180	Rock Wool Foam Board Silica Rock Board Single Gypsum Rock Wool Double Gypsum Rock Wool Sulfur Magnesium Board Paper Honeycomb Board Aluminum Honeycomb Board Glass-Magnesium Grid Board Single Glass-Magnesium Rock Wool Double Glass-Magnesium Rock Wool	Color-coated steel plate or stainless steel plate Coating — Z/AZ/AZM Coating — PE/PVDF/HDP/SMP Function — Anti-static / Anti-bacterial

Product Characteristics

Panel Materials

The panels are made from specialized pre-coated steel sheets and aluminum alloy panels with purification and cleanroom functions.

Core Material Composition

Composed of various core materials such as rock wool, magnesium board, aluminum honeycomb, etc., combined to form the panel.

Excellent Performance

Semi-automatic manual composite process, precise dimensions, ensuring 100% inspection and qualification for each panel.

Applicable Scenarios

Suitable for various cleanroom projects with strict indoor environmental requirements.



Core Material Rendering



Magnesium oxide grid panel



Magnesium oxide rock wool panel



Silicon rock panel



Magnesium sulfate panel



Aluminum honeycomb panel



Gypsum aluminum honeycomb panel



Gypsum rock wool panel



Rock wool panel



Flame-retardant aluminum honeycomb panel



Flame-retardant paper honeycomb panel

SGS 我们选择的粘接剂通过 SGS 标准认证。

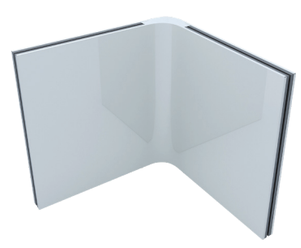
Thermal Parameters

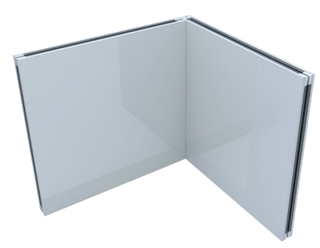
Item	Rock Wool Core Panel	Glass-Mg Rock Wool Core Panel	Aluminum Honeycomb Core Panel
Panel Weight	15-16kg/m^2	17-23kg/m^2	10-15kg/m^2
Core Material Weight	100-120kg/m^2	-	-
Sound Insulation Performance	25dB	30dB	18dB
Bending Load Capacity	1.1KN/m^2	1.15KN /m^2	1.0KN/m^2
Water Repellency Rate	⩾ 98%	-	-
Fire Resistance Limit	30min	60min	41min

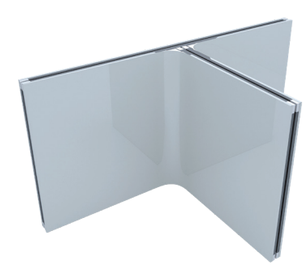
Note: Panel weight is calculated based on a 50mm panel thickness.

One-piece CornerPanel

Unlike the traditional corner joint method, the integrated corner panel is made as a single piece, ensuring a smooth, seamless transition at the corner. This creates a more airtight connection, preventing air leaks and dust accumulation at the joints, making cleaning and disinfection easier. The special thermal insulation treatment of the integrated corner panel effectively prevents the common thermal bridging effect found in traditional corner joints.

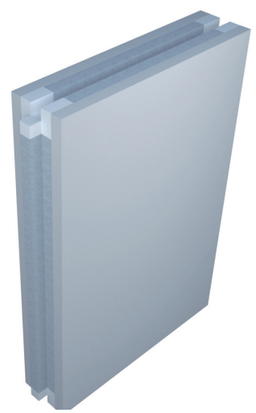






CleanRoom Panel

Clean Panel—Manual 'three mother and one male' Panel





Item	Specification (mm)
Panel Length	Wall panel: ⩽ 7m Ceiling panel: ⩽ 3m
Panel Width	980/1180
Panel Thickness	50/75/100 customizable
Panel Core Material	Diverse core materials
Panel Type Features	Four-sided keel edging, convex keel on one side, concave on others Self-locking tongue-and-groove connection

Cleanroom Door

Cleanroom doors are divided into four product series based on material:

Steel door、Stainless steel door、Color-coated steel plate door、Melamine resin plate door

The core material is generally high-quality flame-retardant paper honeycomb or aluminum honeycomb, to ensure the strength and flatness of the cleanroom door.



Cleanroom Window



Cleanroom observation windows come in various forms, including single-layer and double-layer glass, with shapes available in right angles or rounded corners.

HEADSTREAM cleanroom observation windows feature an integrated design, perfectly combining with cleanroom wall panels. They not only offer excellent sealing performance and easy installation, but also have an aesthetically pleasing appearance, becoming a highlight in the cleanroom space.

Thermal Parameters

Item	Configuration
Glass	Tempered Glass, Fire-resistant Glass, Switchable glass
Window Frame and Cover Plate	Aluminum Alloy Profiles
Window Thickness	50/75/100 mm



Punitive Testing Items
Taken in: 2024

5 METAL CURTAIN WALL

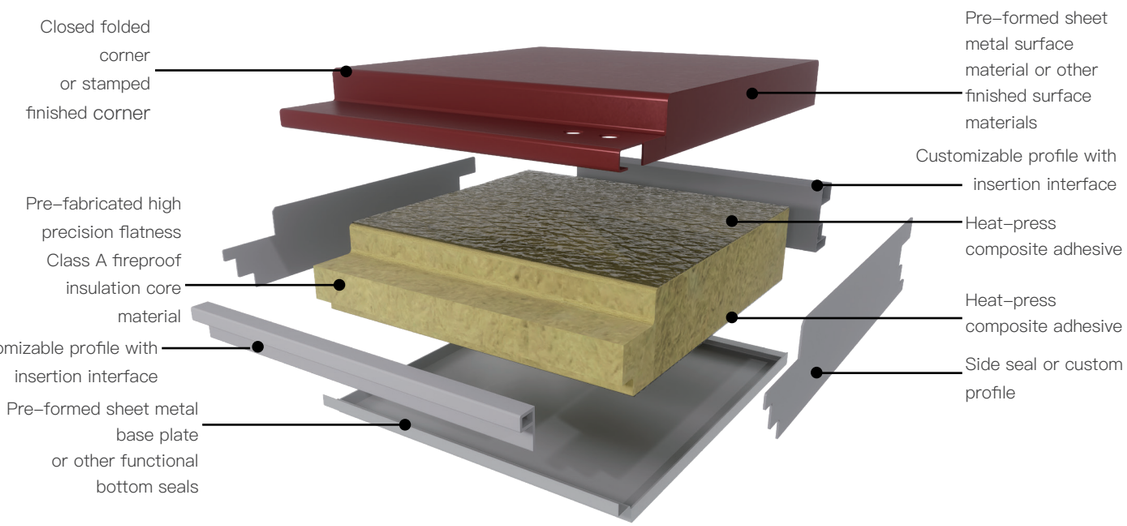
Urban and Rural Integration Cold Chain Logistics Project in Qihe, Shandong
Taken in: 2024

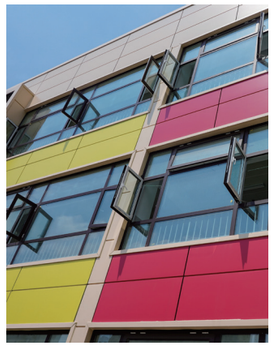
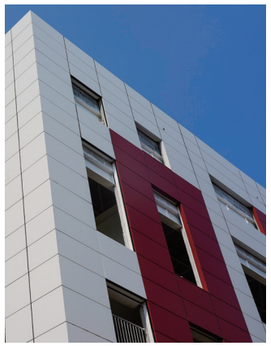
METAL CURTAIN WALL SYSTEM

保利得® BoxFacade®

“虹丽幕” High-end Curtain Wall Series

- Width and narrowness at will
- Length customizable
- Free curvature
- Seamless transitions
- Variety of surface materials
- Vibrant colors
- Window-wall integration
- Modular replacement

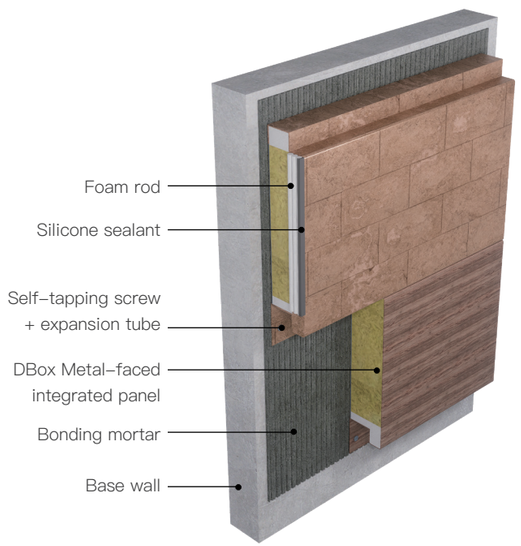




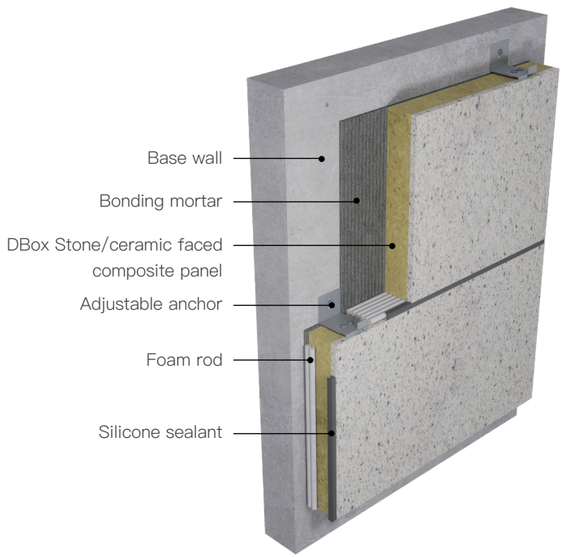
HXY–FD–W–DBox

Exterior Wall Insulation Integrated Panel



Parameter Table

Structure	
Base Wall	Leveling + Surface Treatment
Adhesive Layer	Adhesive Mortar Layer + Fasteners + Expansion plugs
DBox Curtain Wall	Surface Material — Steel plate / Aluminum plate Core Material — Hydrophobic rock wool and other insulation core materials Inner Layer — Glass fiber reinforced cement–based membrane
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 30 ⩽ t ⩽ 60 mm Width — 600–1200 mm Length — ⩽ 6000 mm
Features	
Fixing Method Hanging	Adhesive Anchor Combination or Dry
Joints and Treatment	Joint Width 10mm, Sealed With Silicone Adhesive
Application and Features	Pre–fabricated sheet metal surface, ideal for exterior wall insulation in civil buildings. Eliminates bulging risks, integrates insulation and decoration, easy to install, and cost–effective.

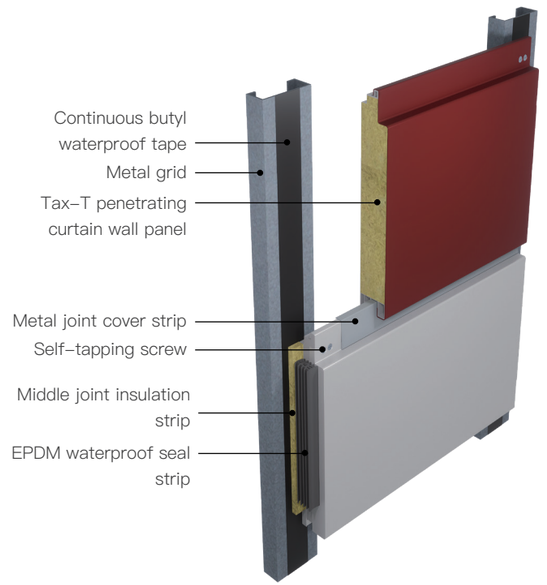


Parameter Table

Structure	
Base Wall	Leveling + Surface Treatment
Adhesive Layer	Adhesive Mortar Layer + Fasteners + Expansion Plugs
DBox Curtain Wall	Surface Material: Stone/ceramic tiles and other finished materials Core Material: Hydrophobic rock wool and other insulation materials Inner Layer: Glass fiber reinforced cement–based membrane
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — ⩾ 30 mm 600900 / 6001200 mm Other specifications can be customized.
Features	
Fixing Method	Adhesive Bonding + Mechanical Anchoring
Joints and Treatment	Joint Width 10mm, Sealed With Silicone Adhesive
Application and Features	Stone/ceramic tiles and other materials available, ideal for civil building exterior insulation. No bulging risks, integrates insulation and decoration, easy installation, cost–effective.

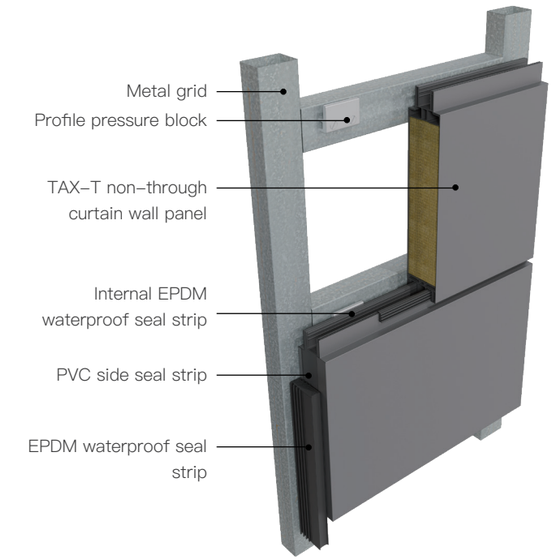
HXY–FD–W–LBox

Plug–In Type Insulation and Decorative Integrated Metal Curtain Wall



Parameter Table

Structure	
Studs	Determined according to steel structure and curtain wall standards
LBox Curtain Wall	Surface Material — Steel plate / Aluminum plate / Stainless steel / Titanium zinc / Copper plate Core Material — Hydrophobic rock wool Inner Panel — Steel plate / Aluminum plate
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 50/75/100 mm Width — 200–1600 mm Length — ⩽ 6000 mm
Features	
Fixing Method	Tongue and Groove Interlocking + Self–Tapping Screws For Mechanical Fixation
Joints and Treatment	Joint Width 20mm, Sealed With EPDM Sealing Strip
Application and Features	Pre–fabricated sheet metal base panel, no residual stress, core flatness ⩽ 0.5mm, heat–pressed bonding. Ideal for large modular facades, integrated insulation and decoration, quick installation, superior to single–panel curtain walls.

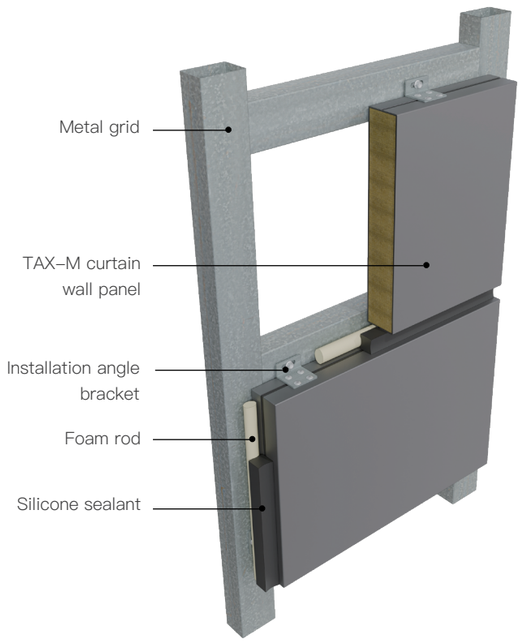


Parameter Table

Structure	
Studs	Determined according to steel structure and curtain wall standards
LBox Curtain Wall	Surface Material — Steel plate / Aluminum plate / Stainless steel / Titanium zinc / Copper plate Core Material — Hydrophobic rock wool Inner Panel — Steel plate / Aluminum plate
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 50/80/100 mm Width — 200–1600 mm Length — ⩽ 6000 mm
Features	
Fixing Method	Tongue–and–groove Interlocking Mechanical Fixation + Block Fastening
Joints and Treatment	Joint Width 30mm, Sealed With EPDM Sealing Strip
Application and Features	Pre–fabricated sheet metal base panel, no residual stress, core flatness ⩽ 0.5mm, heat–pressed bonding. Ideal for large modular facades, integrated insulation and decoration, quick installation, superior to single–panel curtain walls.

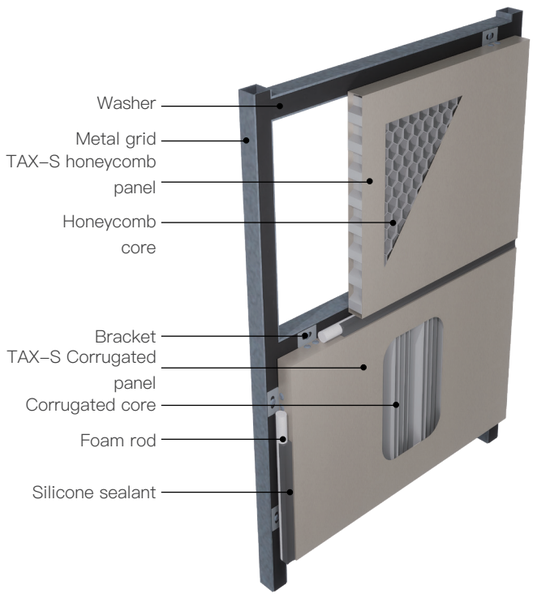
HXY–FD–W–ABox

Decorative Composite Panel



Parameter Table

Structure	
Studs	Determined according to steel structure and curtain wall standards
ABox Curtain Wall	Surface Material — Steel plate / Aluminum plate / Stainless steel / Titanium zinc / Copper plate Core Material — Hydrophobic rock wool Inner Panel — Steel plate / Aluminum plate
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 50–200 mm Width — 200–1600 mm Length — ⩽ 6000 mm
Features	
Fixing Method for Fixation	Corner Brackets + Self–tapping Screws
Joints and Treatment	Foam Rods + Silicone Sealant
Application and Features	Pre–fabricated sheet metal base panel with no residual stress, core material milled to flatness ⩽ 0.5mm, firmly bonded by heat pressing. Suitable for large modular building facades, integrated insulation and decoration, offering fast and simple installation.

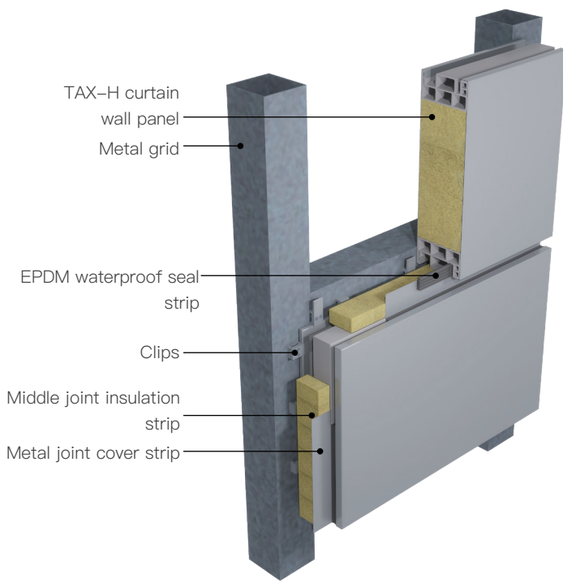


Parameter Table

Structure	
Studs	Determined according to steel structure and curtain wall standards
ABox Curtain Wall	Surface Material — Steel plate / Aluminum plate / Stainless steel / Titanium zinc /Copper plate Core Material — Honeycomb / Corrugated / Other Inner Panel — Steel plate / Aluminum plate
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 6/8/10/12/15/20/25 mm Width — 200–1600 mm Length — ⩽ 12000 mm
Features	
Fixing Method for mechanical fixation,	Corner brackets + self–tapping screws dry–hanging, etc.
Joints and Treatment	Seam tightness, gap separation, sealed with silicone adhesive
Application and Features	Pre–fabricated sheet metal base panel with no residual stress, multiple core options, and strong bonding. Easy to install, no deformation, customizable into curves or shapes. Ideal for interior and exterior walls and ceilings.

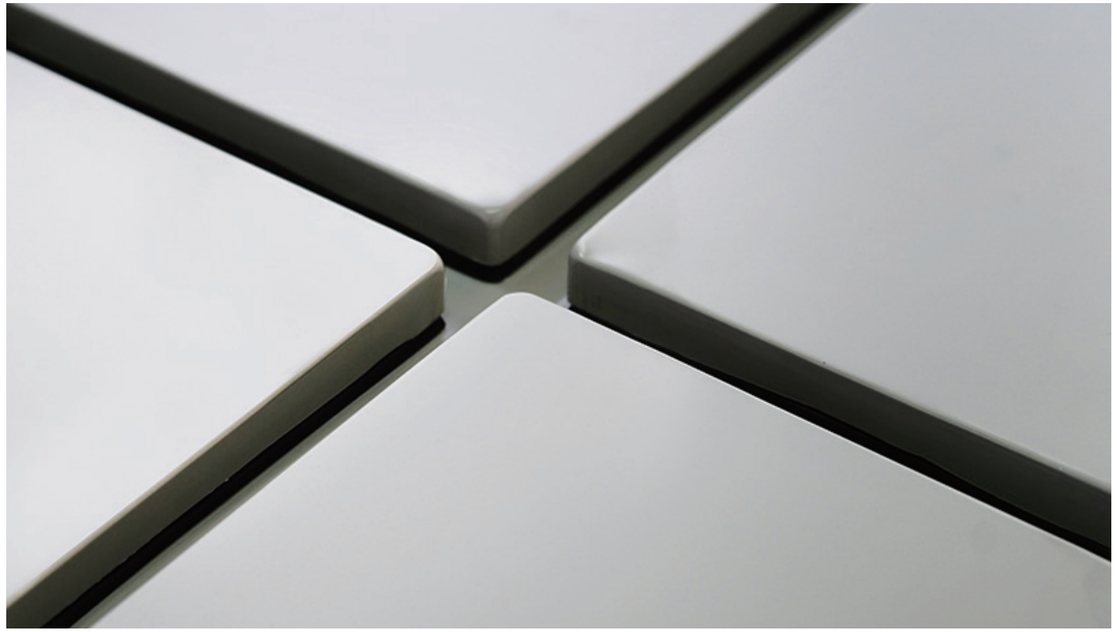
HXY–FD–W–UBox

Clip–in Integrated Insulation and Decorative Metal Curtain Wall



Parameter Table

Structure	
Studs	Determined according to steel structure and curtain wall standards
UBox Curtain Wall	Surface Material — Steel plate / Aluminum plate / Stainless steel / Titanium zinc / Copper plate Core Material — Hydrophobic rock wool Inner Panel — Steel plate / Aluminum plate
Specifications (mm)	*Below are the standard dimensions; others can be customized.
Panel Size	Thickness — 50–200 mm Width — 200–1600 mm Length — ⩽ 6000 mm
Features	
Fixing Method	Clip + Self–tapping Screws; Clip Fixation
Joints and Treatment EPDM sealing strip	Joint width 20mm, metal cover strip,
Application and Features	Pre–fabricated sheet metal panel, no residual stress, core flatness ⩽ 0.5mm, heat–pressed bonding. Modular, clip–on fixation, bidirectional design, easy to replace, ultra–flat surface, high–end finish, integrated insulation and decoration for curtain walls.



For more information on high–end customized metal curtain wall products and technologies, please refer to the 'Specialized Volume on High–End Customized Metal Curtain Walls'.

6 PROFILED METAL SYSTEM

Binzhou Experimental Middle School
Taken in: 2024

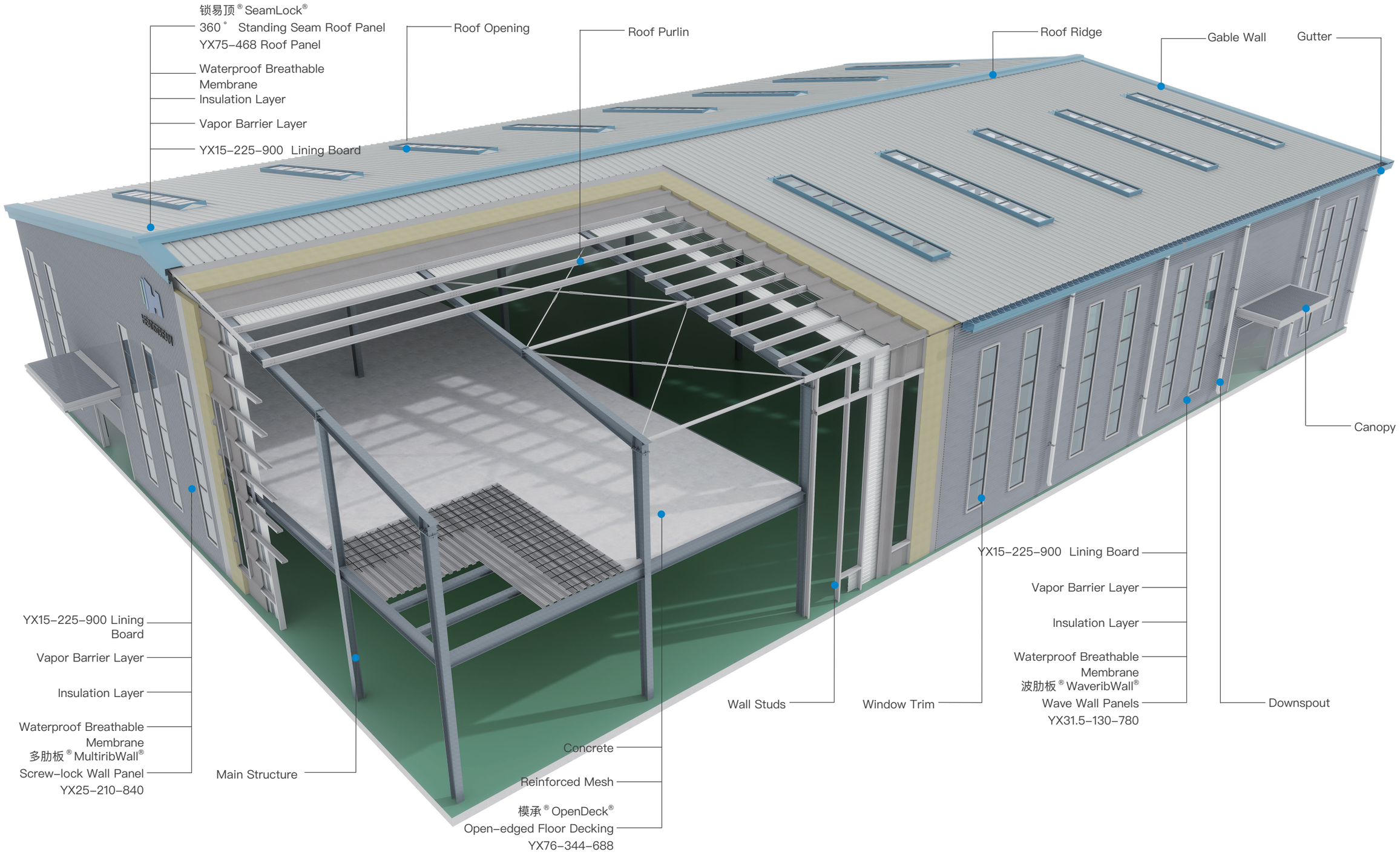
Equipped with over 40 types of advanced profiling equipment, providing one-stop procurement.



Specially equipped with on-site high-altitude profiling equipment, mobile factory experts.



The Model of Profiled Metal Cladding System



Roof Panel

锁易顶® SeamLock75®

360° Standing Seam Roof Panel

YX75–475（468）



（竖加筋）

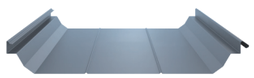


（横加筋）

Thickness mm：0.4–0.8

Strength：G250–G350　　Width：600mm

YX66–470



Thickness mm：0.4–0.8

Strength:

G250–G350

Width：600mm

YX66–394–788



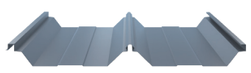
Thickness mm：0.4–0.6

Strength：

G250–G350

Width：1000mm

YX76–380–760



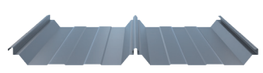
Thickness mm：0.4–0.6

Strength：

G250–G350

Width：1000mm

YX56–410–820



Thickness mm：360°：0.4–0.8

180°：0.4–0.6

Strength：G250–G350

Width：1000mm

Product Characteristics

Fully Automated Roll Forming

High–precision automated roll forming process with no damage. On–site and high–altitude forming options available.

360° Seam Locking + Online Glue Injection

360° locking design with online glue injection ensures 100% waterproof sealing, prevents capillary water vapor, and provides strong wind uplift resistance.

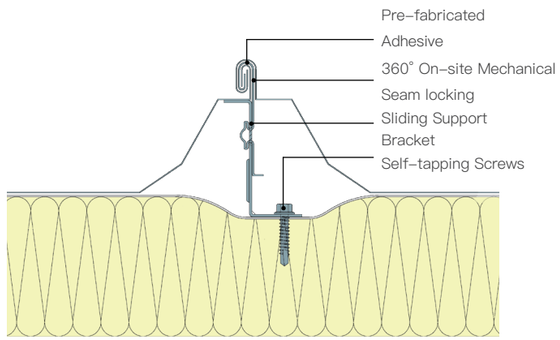
Special Adapted Sliding Supports

Various models of sliding supports effectively release temperature–induced deformation, preventing roof damage due to thermal stress.

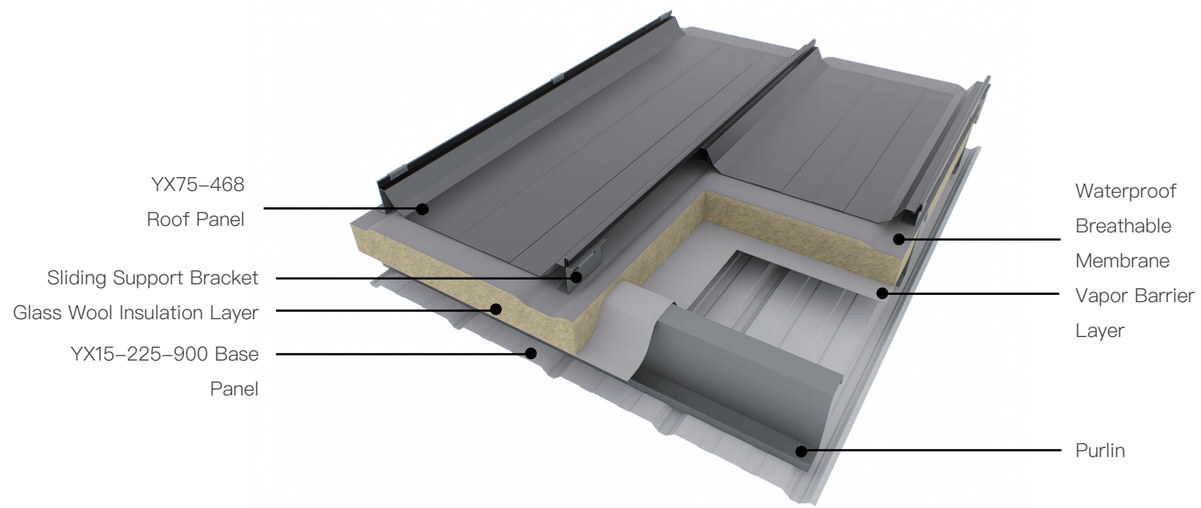
High Ribbed Panel + Reinforced Design

75mm high ribbed panel design with high load–bearing capacity and drainage slope. Reinforced horizontal or vertical design increases panel rigidity, preventing deformation from foot traffic.

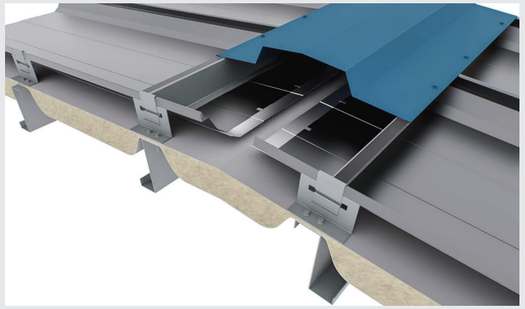
Detailed Drawings of Seam–locking Nodes



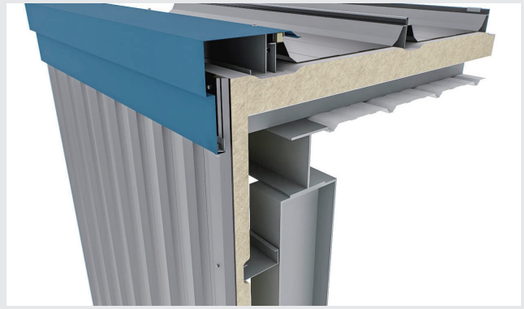
Typical Structure of Metal Roof



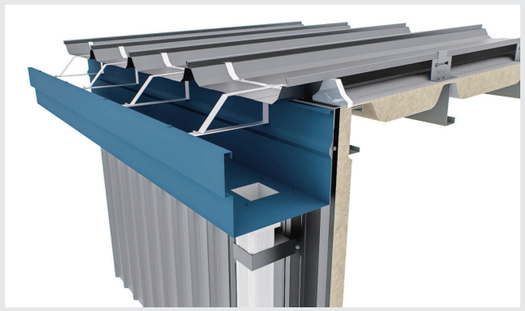
Typical Details of Metal Roof



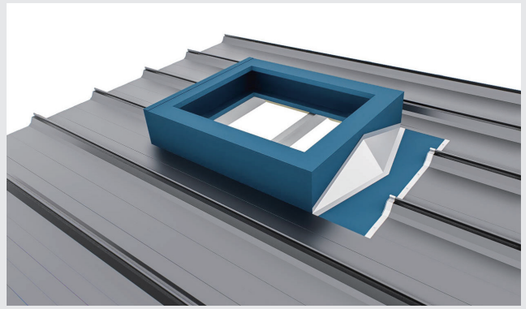
Ridge Node



Gable Wall Node



Gutter Node



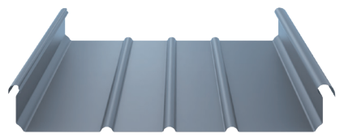
Roof Opening Node

Roof Panel

锁灵顶® SeamFlex65®

Aluminum-magnesium-manganese Standing Seam Roof Panel

YX65-300/328/400/425/500



Thickness mm：0.7-1.2（Al-Mg-Mn） 0.5-1.0（Steel plate）

Strength：Steel-G250-G350 AL:3004/H44-H46

Fan-shaped Panel Range：100-600mm

Minimum Radius for Convex and Concave Arcs:

Thickness of 0.9mm: Convex arc 3m, Concave Arc 6m

Thickness of 1.0mm: Convex arc 2m, Concave Arc 5m

Thickness of 1.2mm: Convex arc 1m, Concave Arc 4m

Product Characteristics

Fully Automated Roll Forming

High-precision, fully automated roll forming process with no damage. On-site and high-altitude forming options available.

360° Locking + Custom Shaping Capability

360° locking edge design, with the ability to form various curved shapes for architectural flexibility.

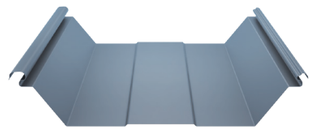
Special Adapted Sliding Supports

Multiple models of sliding brackets effectively release temperature-induced deformation, preventing thermal stress damage to the roof.

High Ribbed Panel + Reinforced Design

65mm high ribbed panel design for high load-bearing capacity, combined with drainage slope for effective roof drainage.

YX92-430



Thickness mm：0.4-0.8

Strength：G250-G350 Width：600mm

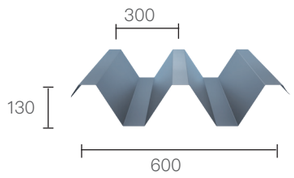
Product Characteristics

The male and female interlocks on both sides of the roof panel, combined with the fixed support, ensure high strength and prevent displacement from temperature changes, allowing unlimited panel length.

Roof Panel

High Ribbed Tile Panel

YX130-300-600



Thickness mm: 0.4-0.8

Strength：G250-G350

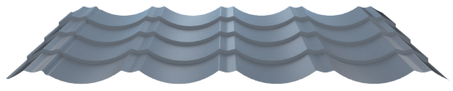
Width：1000

Product Characteristics

Extra high wave height design, high load-bearing capacity, and high strength.

Glazed Tile Panel

YX28-207-828



Product Characteristics

Glazed tile-style color steel panels are suitable for roofing in homes, schools, temples, clubs, and nursing homes. With a selection of colors, they offer a traditional tile look while being lightweight, reducing structural load, and simplifying construction.

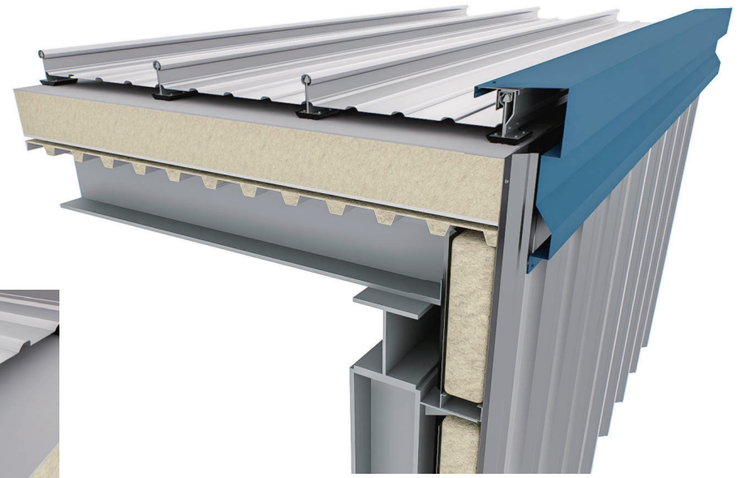
Typical Structure of Metal Roof



Typical Details of Metal Roof

Detailed Drawings of Seam-locking Nodes





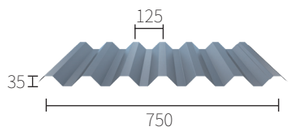
Gable Wall Node

Wall Panel

多肋板® MultiribWall®

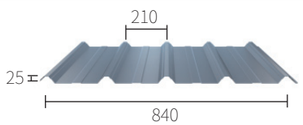
Screw-lock Wall Panel

YX35-125-750（V125）



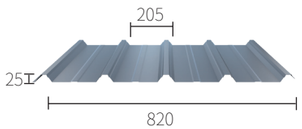
Thickness mm：0.4-2.0
Strength：G250-G550
Width：1000mm

YX25-210-840



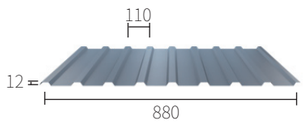
Thickness mm：0.4-1.5
Strength：G250-G550
Width：1000mm

YX25-205-820（1025）



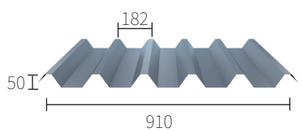
Thickness mm：0.4-1.0
Strength：G250-G350
Width：1000/1200mm

YX12-110-880



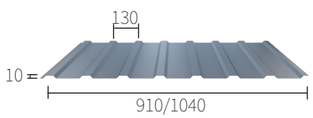
Thickness mm：0.4-0.8
Strength：G250-G350
Width：1000mm

YX50-182-910



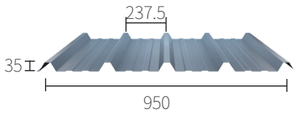
Thickness mm：0.7-1.2
Strength：G250-G550
Width：1250mm

YX10-130-910/1040



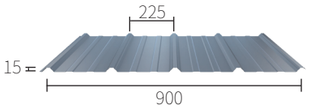
Thickness mm：0.4-0.8
Strength：G250-G350
Width：1000/1200mm

YX35-237.5-950



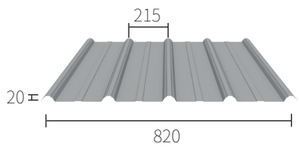
Thickness mm：0.5-0.8
Strength：G250-G550
Width：1200mm

YX15-225-900



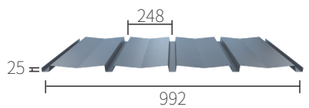
Thickness mm：0.4-1.5
Strength：G250-G550
Width：1000mm

YX20-215-860（1075）



Thickness mm：0.4-0.8
Strength：G250-G350
Width：1000/1200mm

YX25-248-992



Thickness mm：0.5-0.8
Strength：G250-G350
Width：1200mm

Product Characteristics

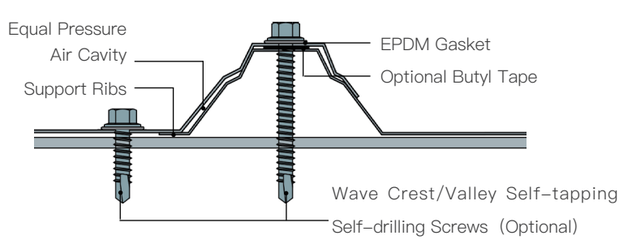
Profiled metal sheets, designed with wave height and wave distance, can meet safety design requirements for various working conditions.

Special air cavity overlap interfaces, aligned with prevailing wind directions, ensure standard waterproofing, with options for higher waterproofing levels using continuous sealing materials.

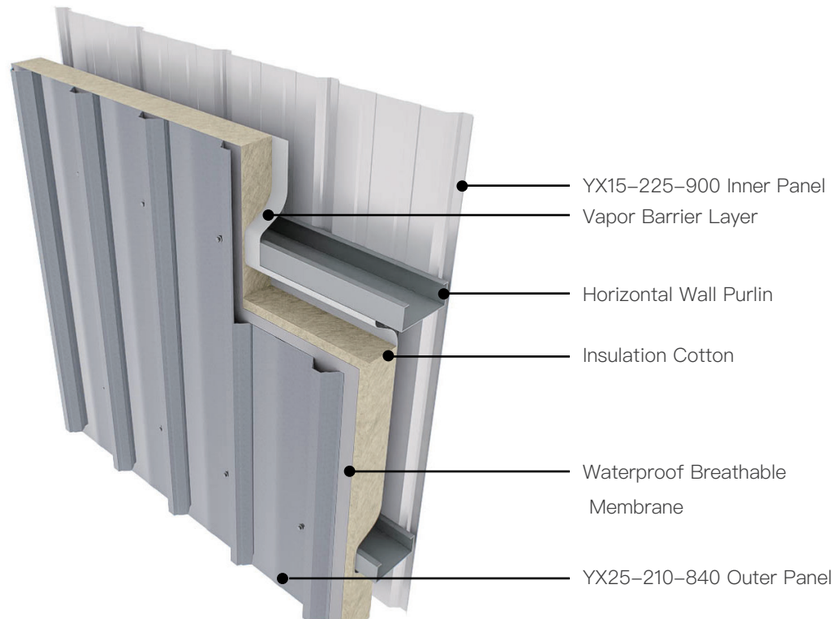
Material strength options range from G250-550, with coating options including Z/AZ/AZM, and finishes like PE/HDP/SMP/PVDF

Easy to install, clear structure, and cost-effective.

Detailed Drawings of Fixing Nodes



Typical Structure of Metal Wall





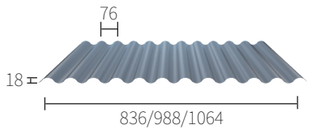
Zhengzhou Guoneng Battery Project
Taken in: 2024

Wall Panel

波肋板® WaveribWall®

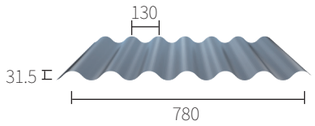
Wave-shaped Wall Panels

YX18-76-836/988/1064



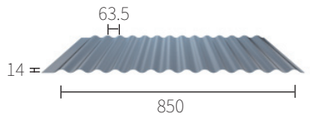
Thickness mm：0.4-1.0
Strength：G250-G350
Width：1000/1200/1250mm

YX31.5-130-780



Thickness mm：0.5-0.8
Strength：G250-G350
Width：1000mm

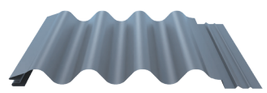
YX14-63.5-850



Thickness mm：0.4-0.7
Strength：G250-G350
Width：1000mm

Hidden-fastener Wave-shaped Wall Panels

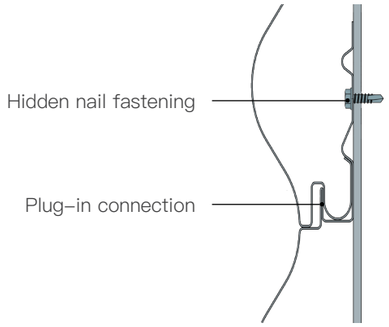
YX18-77-315



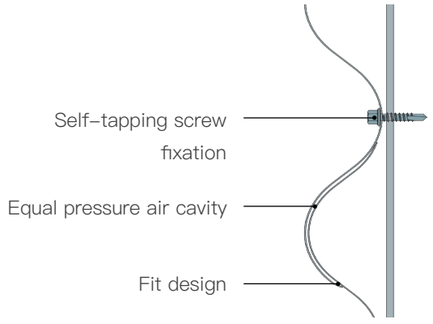
Thickness mm: 0.5-0.8
Strength：G250-G350
Width：500mm

Product Characteristics

Wave-shaped profiling, and hidden fastening.



Detailed Drawings of Hidden-nail Wave-shaped Wall Panel Installation



Detailed Drawings of Installation of Wave-Shaped Wall Panels

Product Characteristics

Profiled metal sheets, designed with wave height and wave distance, can meet the safety design requirements for various working conditions.
The special air cavity overlap interface, combined with the installation requirements based on the prevailing wind direction throughout the year, can meet the ordinary level of waterproofing for exterior walls. Higher levels of waterproofing can be achieved with optional continuous sealing materials. Material strength options include G250-350, with coating options of Z/AZ/AZM. The coating types can be selected from PE/HDP/SMP/PVDF, etc. Easy to install, with a clear structure and cost-effective.
Wave-shaped profiling creates a dynamic light and shadow effect in the architecture.

Typical Structure of Metal Wall



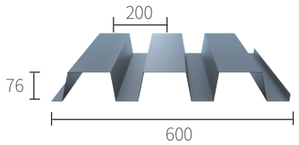


Floor Deck

模承® OpenDeck®

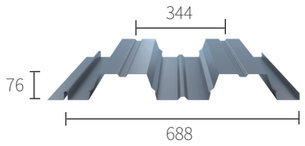
Open-Profile Floor Deck

YX75-200-600



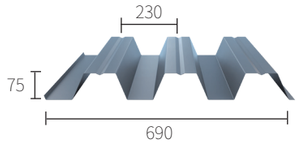
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

YX76-344-688



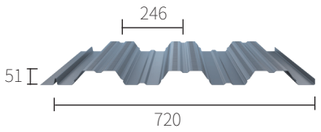
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

YX75-230-690



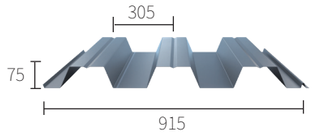
Thickness mm：0.7–1.5
Strength：G235–G550
Width：1000mm

YX51-246-720



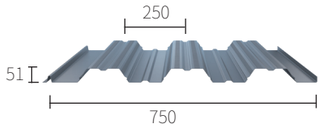
Thickness mm：0.7–1.5
Strength：G250–G550
Width：960mm

YX75-305-915



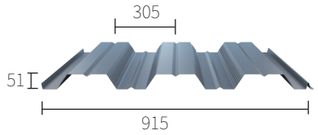
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1250mm

YX51-250-750



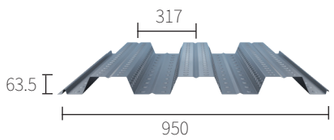
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

YX51-305-915



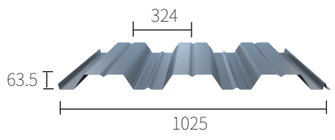
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1140mm

YX63.5-317-950



Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

YX51-342-1025



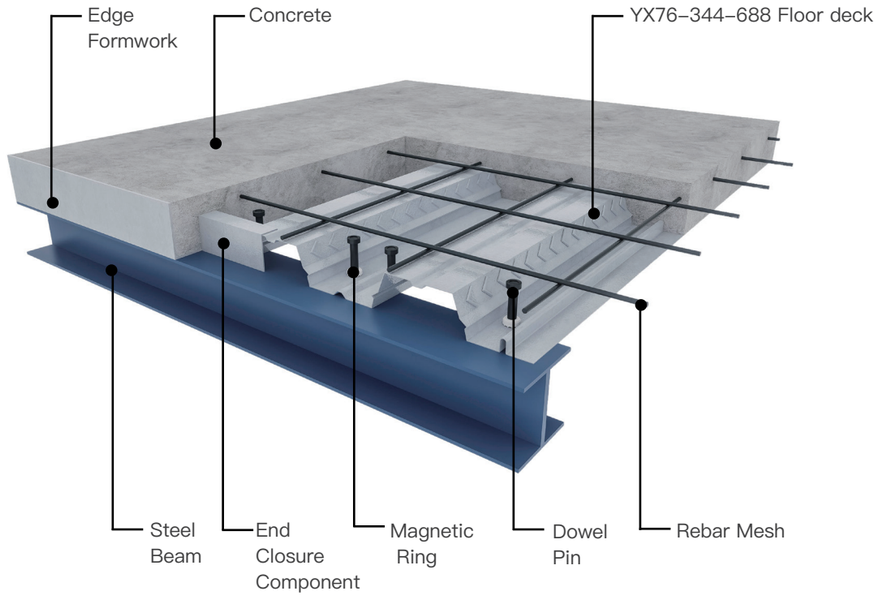
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1250mm

Product Characteristics

Applied to non-composite floor slabs, it serves as a formwork during concrete pouring, eliminating the need for formwork installation and removal, simplifying the construction process. After completion, the ceiling surface is aesthetically pleasing and easy to maintain and decorate in the future

Various product models are available, with surface ribbed patterns designed to provide strong adhesion to concrete. The material strength can range from G250 to G550, with a preference for high-galvanized, corrosion-resistant coatings.

Typical Structure of Metal Floor



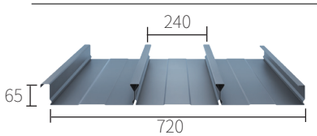


Floor Deck

筋承® CloseDeck®

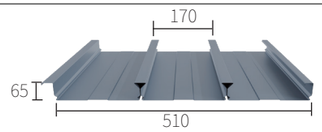
Closed-Slab Floor Deck

YX65-240-720



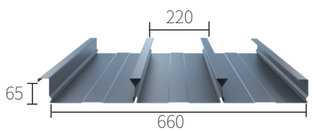
Thickness mm：0.7–1.2
Strength：G250–G550
Width：1165mm

YX65-170-510



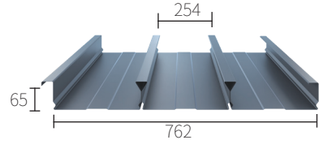
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

YX65-220-660



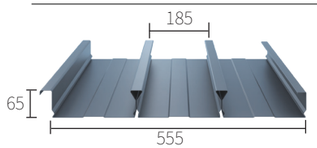
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1155mm

YX65-254-762



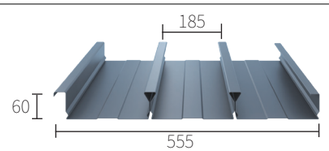
Thickness mm：0.7–1.5
Strength：G250–G550
Width：1250mm

YX65-185-555



Thickness mm：0.7–1.2
Strength：G250–G550
Width：1045mm

YX60-185-555



Thickness mm：0.7–1.5
Strength：G250–G550
Width：1000mm

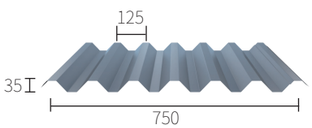
Product Characteristics

Applied to composite floor systems, providing formwork during concrete pouring. During the usage phase, it shares the load with the concrete, acting as tensile reinforcement to reduce steel usage. No formwork installation or removal is needed, simplifying the construction process. The finished ceiling surface is smooth, aesthetically pleasing, and easy to maintain. Available in multiple models, with material strengths ranging from G250 to G550, and often coated with high-galvanization corrosion-resistant layers. Special accessories allow for the installation of indoor suspension points.

Roof Deck

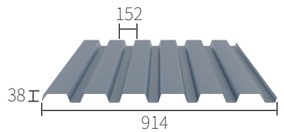
顶承® RoofDeck®

YX35-125-750

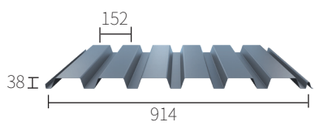


Thickness mm：0.4–1.5
Strength：G250–G350
Width：1000mm

YX38-152-914



Thickness mm：0.5–1.5
Strength：G250–G550
Width：1200mm

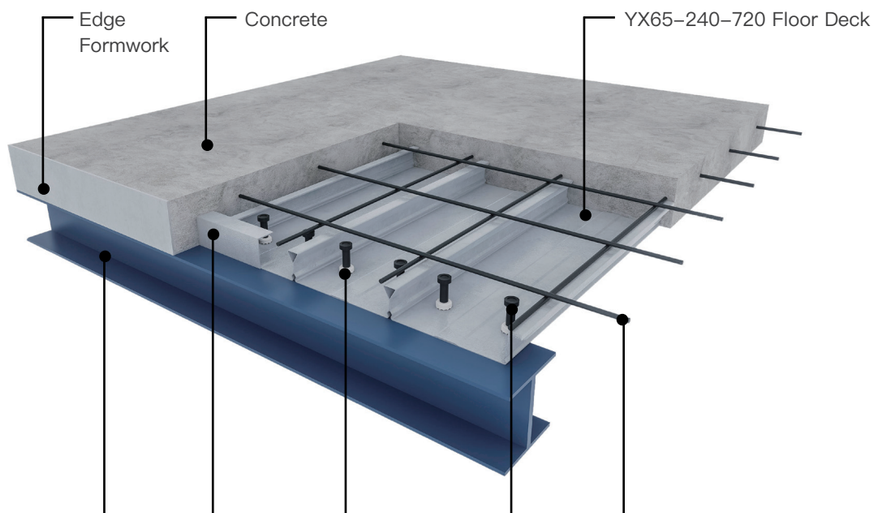


Thickness mm：0.5–1.5
Strength：G250–G550
Width：1250mm

Product Characteristics

Applied to various roofs as a base deck, supporting additional functional layers. It features high strength, easy installation, and accelerates construction. The finished ceiling is aesthetically pleasing and easy to maintain.
Available in multiple models with material strengths from G250 to G550, using corrosion-resistant coatings like high galvanization, aluminized zinc, aluminum-zinc-magnesium, and durable and attractive finishes.

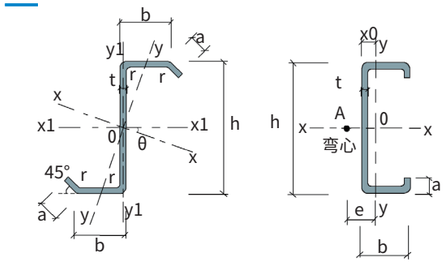
Typical Structure of Metal Floor



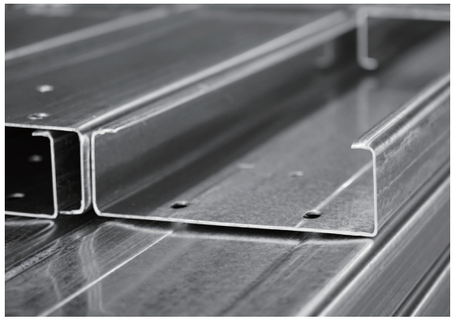


C/Z Purlin Series

C Steel/Z Steel



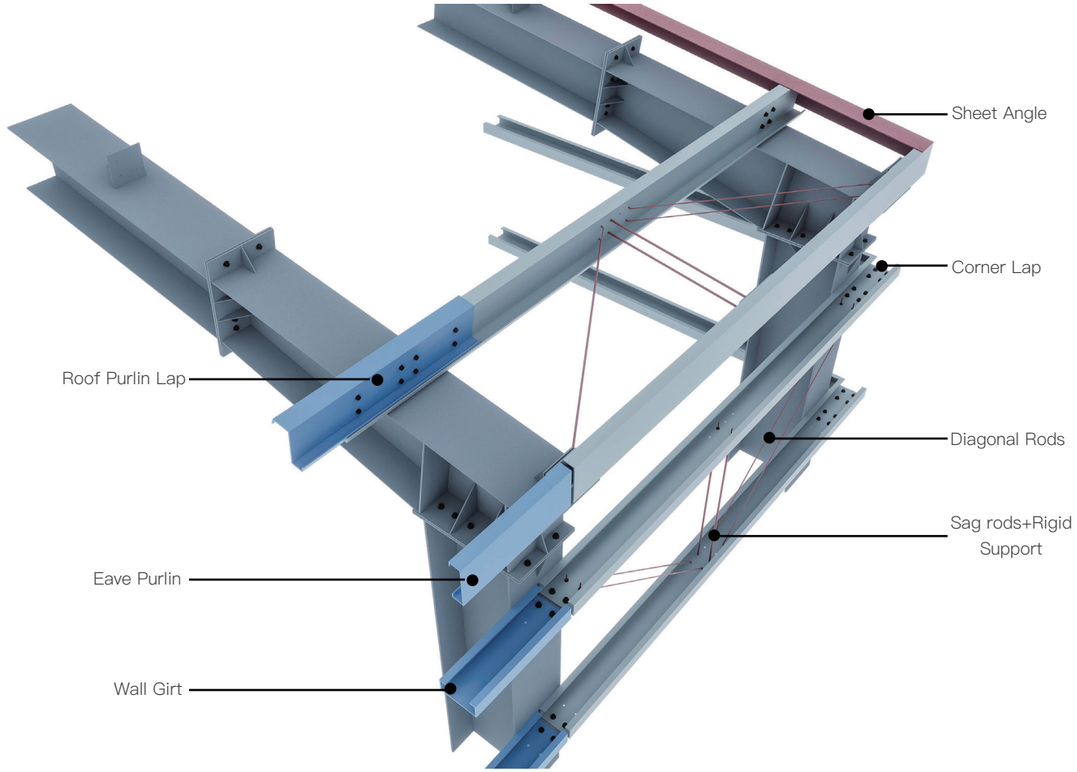
Model	Specification mm	Thickness mm	Strength N/mm²
C Shape	C80–400	1.5–4.0	G250–450
Z Shape	Z80–400	1.5–4.0	G250–450
Special–shaped	Special–shaped	1.5–4.0	G250–450



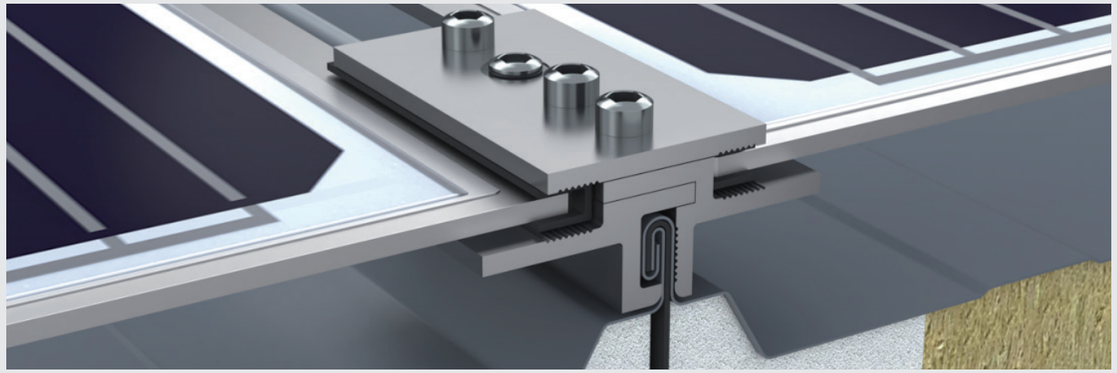


Application Characteristics

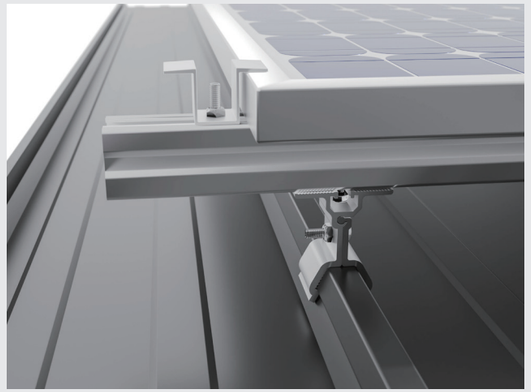
The raw materials are all sourced from major manufacturers using high–strength galvanized strip steel with a hot–dip galvanization standard of Q355N/mm²+Z275g/m² or higher, offering excellent corrosion resistance. With a regular stock of over 5,000 tons, CNC punching ensures high processing accuracy. This allows us to meet various design requirements, including simple support and continuous designs, while providing timely and safe delivery.



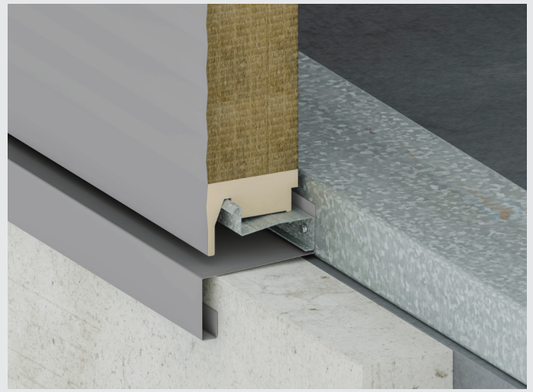
Accessories and Components



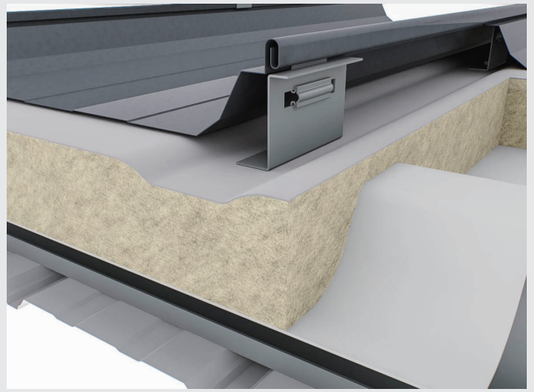
Solar Panel Mounting Bracket



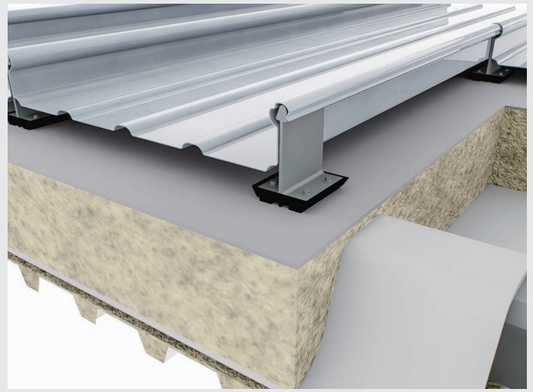
Solar Panel Mounting Bracket



Panel Bottom Bracket



Lock Seam Bracket



Lock Seam Bracket

Product Characteristics

All accessories and components of the complete metal enclosure system have been professionally designed, calculated, and validated through specialized testing and inspections to ensure safety and suitability.

METAL MATERIAL TRADING SYSTEM

HEADSTREAM is a top distributor of color-coated sheets and aluminum zinc-plated light sheets from brands like Shandong Guanzhou, Linqing Hongji, Shougang, and others. It also manages direct sales for Bluescope, Baosteel, YIEH PHUI, and HBIS. Its products, used across industries such as manufacturing, automotive, machinery, and logistics, are sold in over 20 provinces, with an inventory of 20,000 tons and annual sales of 150,000 tons.

STEEL STRUCTURE BUILDING SYSTEM

HEADSTREAM Steel Structure follows ISO quality control standards, ensuring top-quality hot-rolled coils, plates, and H-beams. It partners with leading mills like Jigang, Laigang, and Handan Steel to guarantee the structural safety and appearance of its components.

Sub-structure materials use hot-dip galvanized Z275g/m2 or higher, Q355 high-strength steel, ensuring superior corrosion resistance. With over 5,000 tons in inventory, it features CNC punching for precise processing, cross-section optimization, and efficient design for large-span structures that are safe, lightweight, and easy to install.

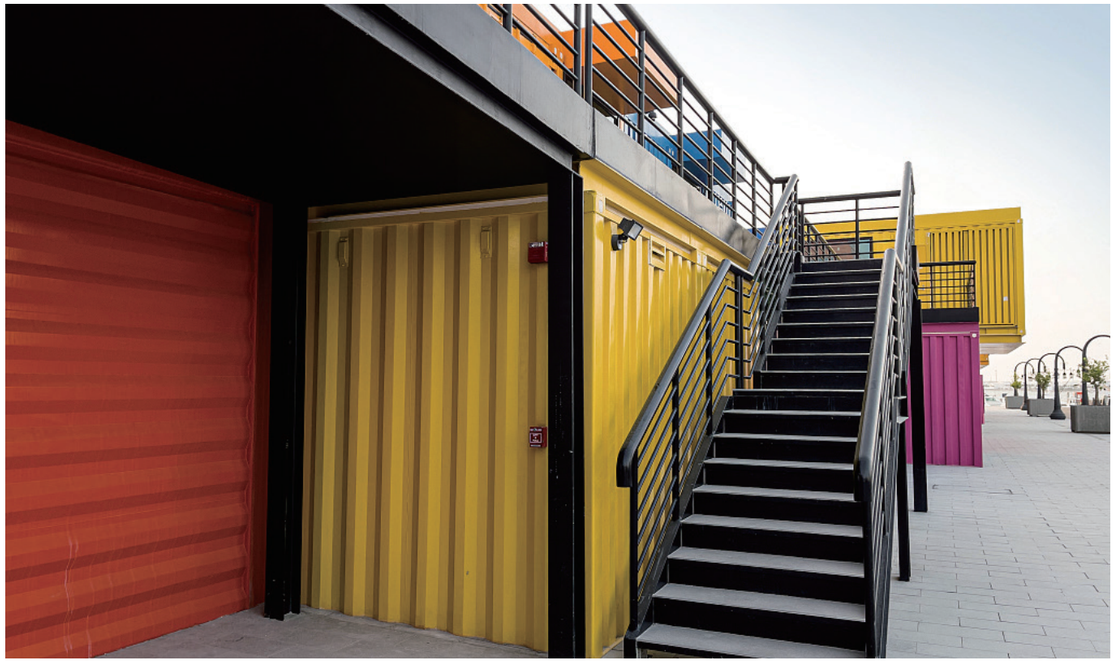




MODULAR HOUSING SYSTEM

Assembled integrated housing is a standard box as the basic unit, like building blocks, can be horizontal or vertical free variety of combinations, flexible spatial layout, functional prefabrication, to achieve the use of functional diversity, diversification of application areas.

Assembled integrated houses can be quickly combined into different styles of integrated house buildings according to different uses and functions, such as: hotels, houses, schools, dormitories, factories, warehouses, exhibition halls, etc., becoming the first generation of green buildings.



Six Advantages

Size Standard

Designed based on standard container size to meet basic living and office needs.

Can also be customized according to customer needs, with a variety of specifications.

Beautiful Appearance

Pipes are pre-buried in the wall, flexible layout.

Safety and Durability

The steel frame structure is designed using special cold-formed galvanized steel, all cladding materials are non-combustible.

Insulation and Soundproofing

The wall panels use double-sided sandwich materials, providing excellent insulation, moisture-proof, and heat-resistant performance.

Energy-efficient and Cost-effective

The structure is reusable, with easy disassembly and reassembly, resulting in minimal waste and near-zero loss.

Convenient Installation and Transport

The structure can be transported as a whole or in parts, with integrated water and electrical systems, and pre-fabricated decorations, eliminating the need for secondary renovation.

STRENGTH GUARANTEE

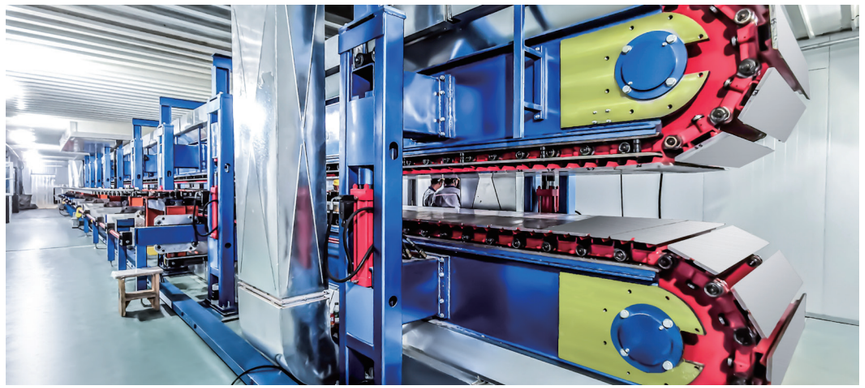
Production Strength

Equipped with a complete set of imported Italian PUMA production lines, OMS advanced equipment and technology, and ultra-long dual tracks for sufficient polyurethane foam curing, greatly improving the bonding and molding properties of the panels. The high level of automation, including robotic stacking systems, automatic cotton replenishment, and automatic glue spraying systems, enhances production efficiency and product quality stability.

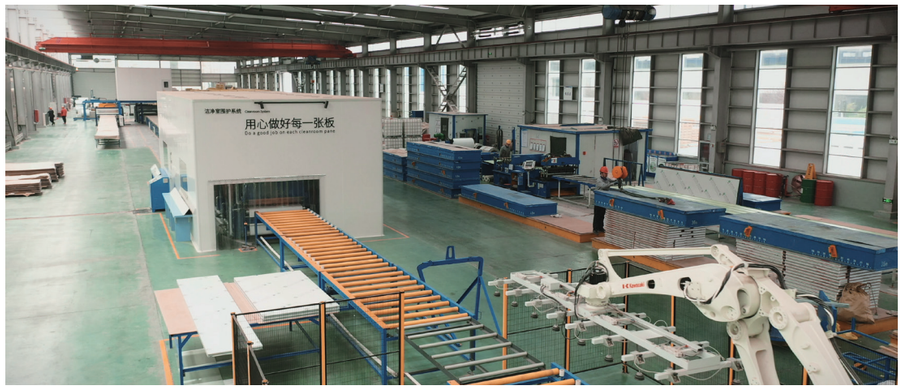
Energy Saving Board Production Line



Cold Storage Production Line



Clean Board Production Line



JORNS AG Bending Machine

To better serve customers, HEADSTREAM has introduced two JORNS AG bending machines (10m and 6m lengths) to meet various bending requirements. These machines feature intelligent "0-error" technology, fully automatic operation, simulated animation, and high-precision servo control. They can process multiple conical plates and shapes, fulfilling diverse customer bending needs.



JORNS

RAS XLTbend Bending Machine

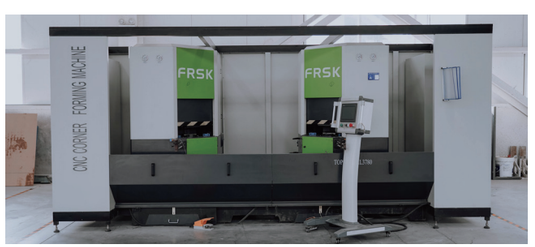


CNC Machine Tools



Metal Curtain Wall Equipment





Material Testing Center

HEADSTREAM has a state-of-the-art material testing center, equipped with over 30 professional devices, focused on testing the physical, mechanical, and combustion properties of raw materials, auxiliary materials, and finished products, as well as developing new products. It follows international operational standards with a comprehensive quality control system, covering raw material inspection, auxiliary material testing, product testing, and laboratory analysis. This ensures seamless quality control from material receipt to production and final product inspection, guaranteeing stable product quality.





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SANY · VOLVO · 深國際 · 新发地 · 欧派门 幸福家·欧派门

KUKA 顾家家居 · 林清轩 肌肤发光的秘密 · COMAC 中国商飞 · FOLIDAY 复星旅文 · 齐都药业 QIDU PHARMACEUTICAL

Hailir 海利尔 · BD · MEBO 美寶 · muyuan 牧原 · 新希望六和 NEW HOPE LIUHE

东方希望 EAST HOPE · MARS 玛氏中国 · MISSION 麦西恩 · Coca-Cola · TSINGTAO 青岛啤酒

pepsi · 海底捞 · 蒙牛 · 伊利 · 三全

安井 · 卫龙 · 老乡鸡 · 稻香村 SINCE 1773 –DERICECHOICE– · 东阿阿胶 DEEJ

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ANSTEEL 鞍钢集团 · ROCKWOOL · OWENS CORNING 欧文斯科宁 · InfinShine · LUYANG 鲁阳

PROJECT CASES

Electronic Industry

Project Name：TCLCSOT Project



Product：比宜得 ® BeautFacade®、压型板
Quantity：264000 ㎡

Project Name：Xiaomi Smart Factory Project



Product：可旺得 ® QuadFacade®
Quantity：16000 ㎡

Project Name：Alibaba Feitian Industrial Park



Product：可旺得 ® QuadFacade®
Quantity：103500 ㎡

Project Name：BOE Project



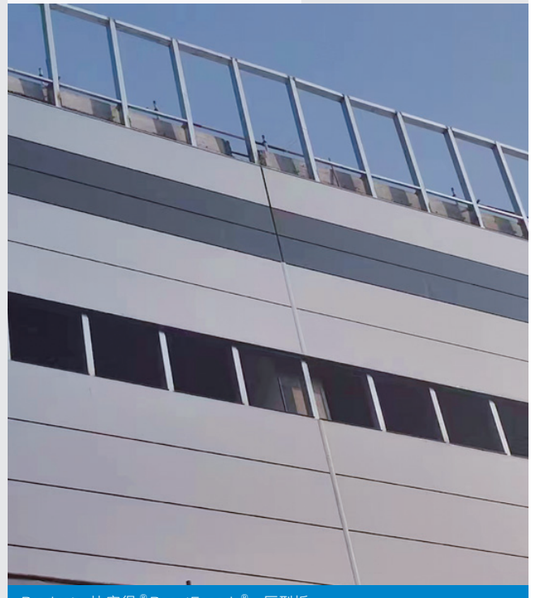
Product：比宜得 ® BeautFacade®、压型板
Quantity：203300 ㎡

Project Name：Panasonic Project



Product：比宜得 ® BeautFacade®
Quantity：4000 ㎡

Project Name：Foxconn Project



Product：比宜得 ® BeautFacade®、压型板
Quantity：147000 ㎡

PROJECT CASE

Huawei Project

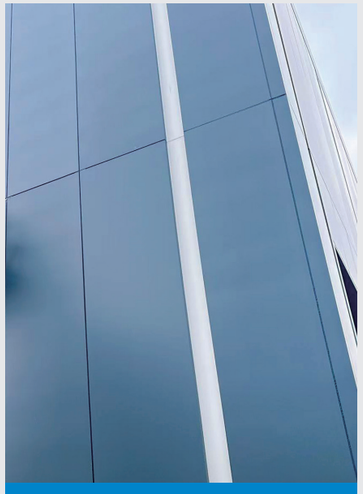
Product：比宜得 ® BeautFacade®、保利得 ® BoxFacade®、氪利净 ® CleanBox® 、压型板等
Quantity：682000 ㎡



Product：比宜得 ® BeautFacade®



Product：氪利净 ® CleanBox®



Product：保利得 ® BoxFacade®—泄爆板



Product：保利得 ® BoxFacade®—蜂窝板

PROJECT CASES

New Energy Industry

Project Name：Hive Lithium Battery Project



Product：比宜得 ® BeautFacade®、氪利净 ® CleanBox®
Quantity：623000 ㎡

Project Name：Lubei Wanrun Smart Energy Project



Product：比宜得 ® BeautFacade®、依实瓦 ® InsulateRoof®、钢结构
Quantity：106000 ㎡

Project Name：AVIC Lithium Battery Project



Product：比宜得 ® BeautFacade®
Quantity：580000 ㎡

Project Name：Meijin Energy Project



Product：比宜得 ® BeautFacade®、圆弧板
Quantity：10000 ㎡

Traditional Energy Industry

Project Name：Datang Guodian Project



Product：比宜得®BeautFacade®
Quantity：6000 ㎡

Project Name：Yulin Chemical Project



Product：比宜得®BeautFacade®
Quantity：45000 ㎡

Project Name：Baofeng Energy Project



Product：比宜得®BeautFacade®
Quantity：8000 ㎡

Project Name：Zhengzhou Eastern Environmental Energy Project



Product：可旺得®QuadFacade®
Quantity：16000 ㎡

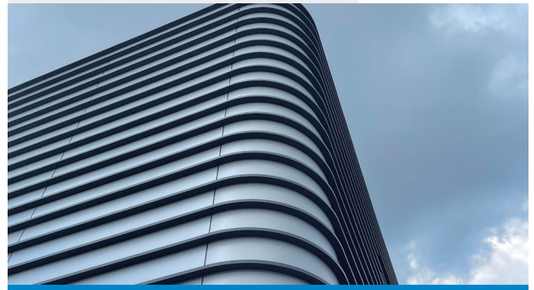
Project Name：CONCH VENTURE Project



Product：比宜得®BeautFacade®
Quantity：30000 ㎡

Automobile Industry

Project Name：Tuopu Automotive Project



Product：比宜得®BeautFacade®
Quantity：10000 ㎡

Project Name：Beijing Hyundai Automotive Project



Product：比宜得®BeautFacade®
Quantity：16600 ㎡

Project Name：Great Wall Motors Project



Product：酷晶®ColdCrystal®
Quantity：10000 ㎡

Project Name：BYD Project



Product：比宜得®BeautFacade®、氪利洁®CleanPan®、压型板
Quantity：506500 ㎡

PROJECT CASES

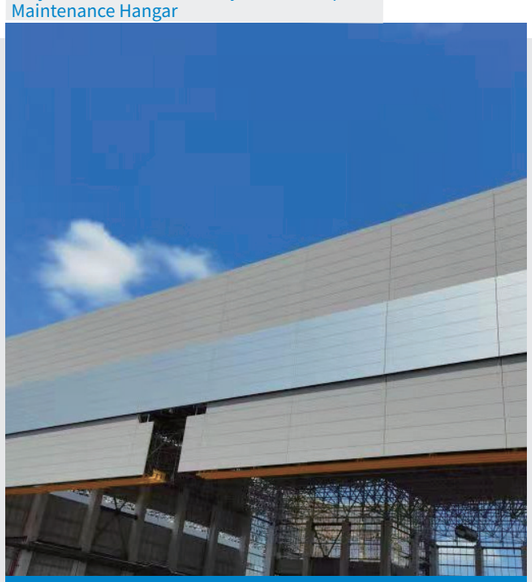
Public Building Industry

Project Name：Sichuan Tianfu Airport Project



Product：比宜得 ® BeautFacade®、依实瓦 ® InsulateRoof®
Quantity：19080 ㎡

Project Name：Hainan Sanya Meilan Airport Maintenance Hangar



Product：比宜得 ® BeautFacade®
Quantity：26000 ㎡

Project Name：Urumqi Airport Project



Product：比宜得 ® BeautFacade®
Quantity：12000 ㎡

Project Name：Qingzhou High-Speed Railway Station Project



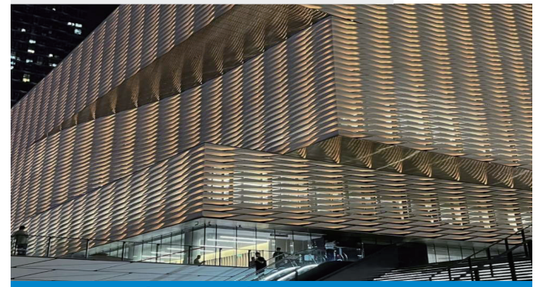
Product：锁灵顶 ® SeamFlex65®
Quantity：20000 ㎡

Project Name：LinYi Kindergarten Project



Product：保利得 ® BoxFacade®
Quantity：5000 ㎡

Project Name：Shenzhen Art Museum Project



Product：比宜得 ® BeautFacade®
Quantity：21700 ㎡

Project Name：LinYi No. 36 Middle School Project



Product：保利得 ® BoxFacade®
Quantity：14400 ㎡

Project Name：Xi'an Jiaotong University Research Institute Project



Product：比宜得 ® BeautFacade®
Quantity：20000 ㎡

Project Name：Snow Star Ski Resort Project



Product：酷晶 ®ColdCrystal®
Quantity：：201400 ㎡

Project Name：Alps Snow World Ski Resort Project



Product：酷晶 ®ColdCrystal®
Quantity：13800 ㎡

PROJECT CASES

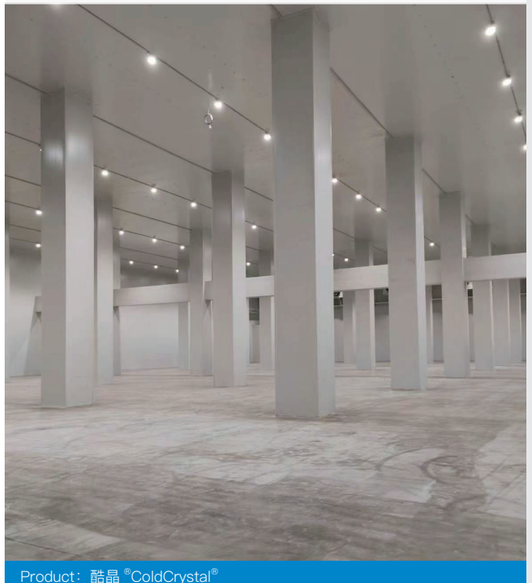
Cold Chain and Logistics

Project Name：VX Logistics Project



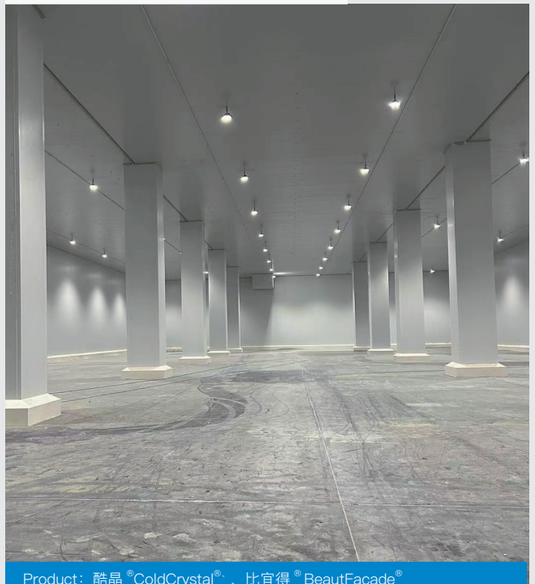
Product：酷晶 ®ColdCrystal®、比宜得 ® BeautFacade®
Quantity：167000 ㎡

Project Name： China Supply & Marketing Southwest Cold Chain Logistics Project



Product：酷晶 ®ColdCrystal®
Quantity：34000 ㎡

Project Name：Global Logistic Properties



Product：酷晶 ®ColdCrystal®、比宜得 ® BeautFacade®
Quantity：48000 ㎡

Project Name：Xinfadi Project



Product：酷晶 ®ColdCrystal®、压型板、檩条
Quantity：466600 ㎡

Project Name：Yiwu Free Trade Zone Project



Product：酷晶 ®ColdCrystal®、压型板、檩条
Quantity：53000 ㎡

Project Name： Langhua Industrial Supply Chain Intelligent Technology Park Project



Product：比宜得 ® BeautFacade®、压型板
Quantity：180700 ㎡

Project Name：SF Project



Product：比宜得 ® BeautFacade®
Quantity：16000 ㎡

Project Name：Guangxi Beibu Gulf Logistics Park Project



Product：酷晶 ®ColdCrystal®
Quantity：117200 ㎡

PROJECT CASES

Food Industry

Project Name：Beibingyang Project



Product：比宜得 ® BeautFacade®
Quantity：28500 ㎡

Project Name：Tsingtao Beer Project



Product：比宜得 ® BeautFacade® 、氪利净 ® CleanBox®、氪利洁 ® CleanPan® 、楼承板
Quantity：35700 ㎡

Project Name：Mars Wrigley Ice Cream Factory Project



Product：比宜得 ® BeautFacade®
Quantity：10400 ㎡

Project Name：Laoxiangji Project



Product：氪利净 ® CleanBox®
Quantity：35600 ㎡

Project Name：Messiah Project



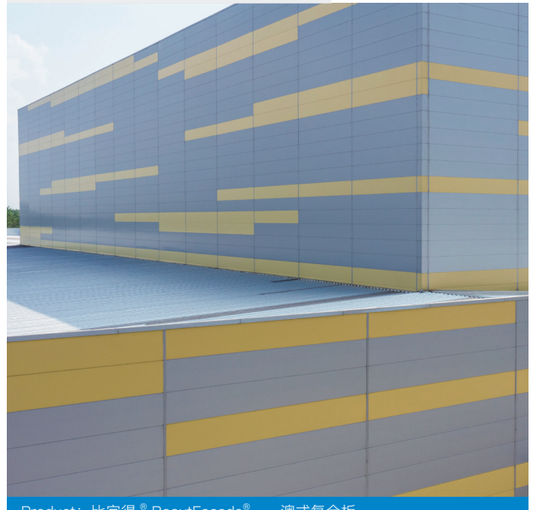
Product：比宜得 ® BeautFacade®
Quantity：14900 ㎡

Project Name：Weilong Food Project



Product：依实瓦 ® InsulateRoof®
Quantity：5000 ㎡

Project Name：Newliuwu Food Project



Product：比宜得 ® BeautFacade® 、 澳式复合板
Quantity：118700 ㎡

Bio–medicine

Project Name：Forest cabin Project



Product：可旺得 ® QuadFacade®
Quantity：8000 ㎡

Project Name：MEBO Project



Product：可旺得 ® QuadFacade®
Quantity：50000 ㎡

Project Name：Biobio Project



Product：保利得 ® BoxFacade®
Quantity：50000 ㎡

Project Name：HAILIR Project



Product：氮利净 ® CleanBox®
Quantity：20000 ㎡

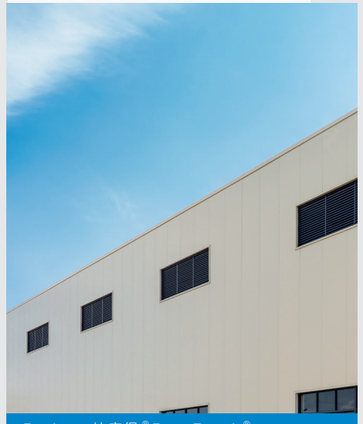
Manufacturing Industry

Project Name：Haier Project



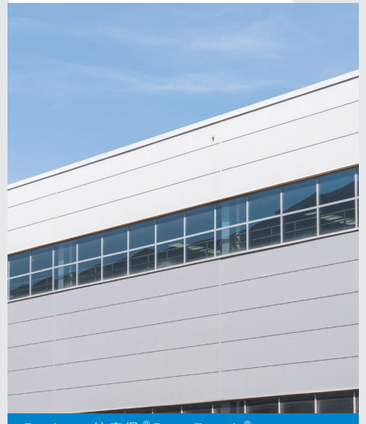
Product：比宜得 ® BeautFacade® 、氮利净 ® CleanBox®、氮利洁 ® CleanPan®
Quantity：170000 ㎡

Project Name：Oppein Door Project



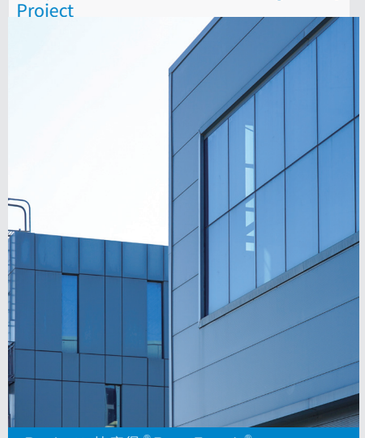
Product：比宜得 ® BeautFacade®
Quantity：58000 ㎡

Project Name：Shanxi TZ Project



Product：比宜得 ® BeautFacade®
Quantity：177200 ㎡

Project Name：Manufacturing Valley Proiect



Product：比宜得 ® BeautFacade®
Quantity：20000 ㎡

诚实良善·相融共赢

Honesty and Goodness;Cooperation and Win-Win

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版本：1.0–202412

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