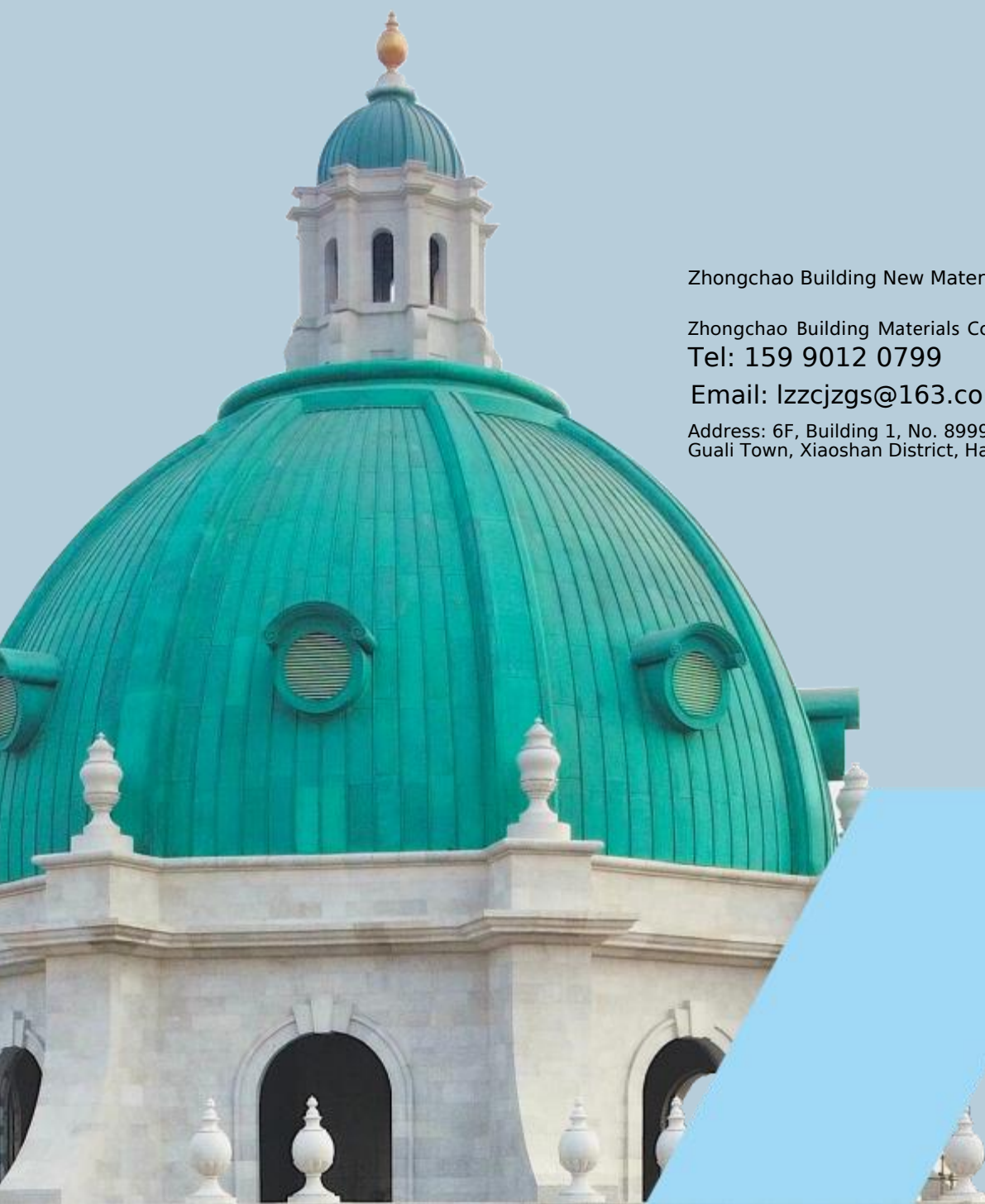




Zhongchao Building New Materials Co., Ltd.

Zhongchao Building Materials Co., LTD

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Address: 6F, Building 1, No. 8999 Jianshe 4th Road,
Guali Town, Xiaoshan District, Hangzhou, Zhejiang

ZHONGCHAO NEW MATERIALS



Integrated Insulation & Decorative Panels,
Metal Roofing, Traditional Roof Tiles
Chinese-style Aluminum Components

Heat preservation and decoration integrated plate, metal roof, antique tile Chinese aluminum component.



Company Profile

Enterprise brief
introduction

Enterprise

Return to our roots; stay true to our
purpose.

Honesty and integrity; service comes
first.

“Details create perfection; quality determines success.”

Details make perfect, quality determines success or failure

Zhongchao specializes in the design and construction of integrated exterior wall decoration, metal roofing and traditional Chinese-style building systems. Bringing together R&D, design, production, sales and installation, we provide customers with professional decorative system solutions.

Our main products include integrated exterior wall insulation and decorative panels, aluminum-magnesium-manganese roofing panels, and aluminum components that replace timber in Chinese-style buildings. We design and install building envelope systems, and also produce titanium-zinc, copper, stainless steel and other cladding materials. Since introducing integrated insulation and decorative panels, standing-seam metal roofing and aluminum traditional roof tile systems, Zhongchao has completed many types of projects and developed comprehensive technical solutions. As a specialist supplier of metal decorative systems, we continually strive to excel in product quality and architectural beauty.

Corporate Vision

Enterprise vision

Employees can realize their personal value through the company platform and contribute their wisdom to the development and innovation of the construction industry.

Meaning of Work

Work significance

Through my efforts,
improve my family's life;
Through my efforts,
help others overcome
difficulties;
Through my efforts,
earn the respect of society!

Service
Standards

Service standards

While protecting our dignity and the company's fundamental interests, do our utmost to meet customers' reasonable needs. Let customers feel our sincerity and earn their trust. Ultimately, become friends and gain referrals!

Company History

Enterprise
development history



In 2017, to develop the steel structure envelope market in Northwest China, Zhongchao established Lanzhou Zhongchao Building Materials Co., Ltd. and Lanzhou Zhongxuan Steel Structure and Curtain Wall Co., Ltd., obtaining Grade III steel structure and Grade II curtain wall qualifications. This completed our transformation from a materials company into an engineering company.

In 2020, as the pandemic affected the global economy and the national economy slowed, we invested against the trend to establish Taiyuan Zhongchao Building Materials Co., Ltd. and capture the North China market, marking a breakthrough in our nationwide production base network.



Since entering the metal roofing industry in 2010, the Zhongchao team has witnessed the development of roofing materials and gained extensive technical experience. Materials evolved from color-coated steel to aluminum-magnesium-manganese, copper and titanium-zinc, while profiles gradually shifted from color-coated steel series to mainstream point-supported and fully supported systems. After five years of experience and growing expertise, we established Hangzhou Zhongchao Building Materials Co., Ltd. and Hangzhou Qinzong Labor Engineering Co., Ltd. in 2015.



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Fully Supported Standing-seam Roof System

Vertical locking plane contact roof system



Batten-cap System

Fasten the lid locking system



Flat-lock System

Planar locking system



Traditional Glazed Tile System

Chinese metal roofing system

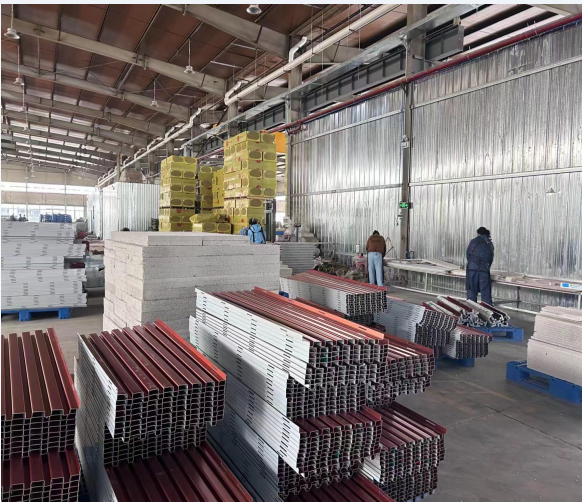


Roofing Profiles and Accessories

Other plate types and accessories

Factory scene

Factory Views



Insulation Decoration integrated plate

Integrated Insulation & Decorative Panels

Unique Advantages

Unique advantages

Integrated insulation panels combine an insulation layer, high-strength composite adhesive and a decorative facing, in line with modern green, environmentally friendly and energy-saving building concepts. Low overall cost, fast construction, attractive appearance and excellent value have made them popular with owners and designers. They are mainly used for urban exterior wall insulation renovation, integrated exterior wall decoration in new buildings, and office building wall decoration and insulation. They enable integrated insulation and decorative construction with environmental benefits. Our main products are Zhongchao fusion panels, aluminum-faced insulation panels, thin ceramic insulation panels and aluminum honeycomb panels.

☆ A single panel provides both insulation and decoration. No steel subframe is required; combined adhesive and mechanical anchoring enables fast, low-cost construction unmatched by other materials.

☆ High safety, decorative quality, weather resistance and value; self-cleaning, corrosion-resistant surfaces with lasting beauty.

☆ Prefinished installation, fewer steps, dry construction, easy installation, shorter schedules and simpler quality control.



Process Flow

Process flow



Facing Laser Cutting



Facing Sheet-metal Fabrication



Core Lamination



Fastener Installation



Packing and Dispatch

Common Facings and Core Materials

Common plate types and materials

Integrated Panel Materials:

Facing: aluminum / aluminum-zinc coated steel (custom thickness and paint), thin ceramic panels, etc.

Insulation core: rock wool board, thermoset composite polystyrene board, foam glass, inorganic lightweight aggregate insulation board, etc.

Backing: calcium silicate board, cement-based fabric, aluminum sheet, etc.

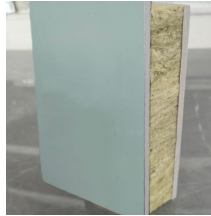
① Zhongchao Fusion Panels



Fusion Panel Facing



Fusion Panel + Thermoset Insulation

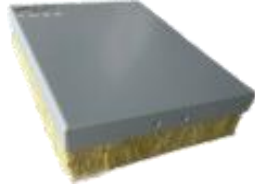


Fusion Panel + Rock Wool Insulation

② Aluminum-faced Insulation Panels:



Aluminum + Thermoset Insulation Panel



Aluminum + Rock Wool + Backing Panel



Aluminum + Inorganic Lightweight Aggregate Panel

③ Thin Ceramic Insulation Panels:



Thin Ceramic + Thermoset Insulation Panel



Thin Ceramic + Rock Wool + Backing Panel

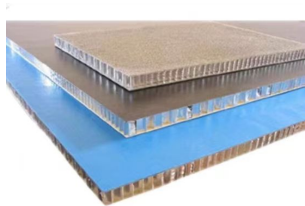
④ Thin Stone Insulation Panels



Thin Stone + Thermoset Insulation Panel

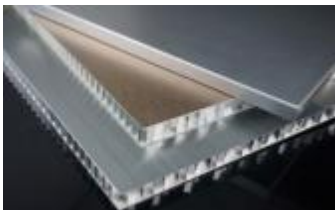


Thin Stone + Rock Wool + Backing Panel



Thin Stone Aluminum Honeycomb Panel

④ Aluminum Honeycomb Panels



Aluminum Honeycomb Panel

Structure Composition

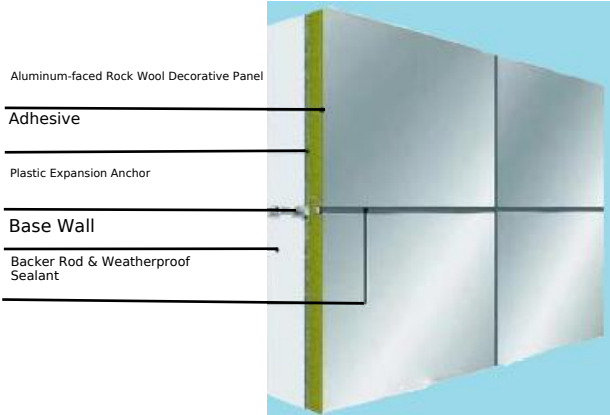
Structure

Zhongchao fusion panel: a facing made of 0.5 mm aluminum + 3 mm A2 fire-rated core + 0.5 mm aluminum, bonded to thermoset insulation, rock wool, inorganic lightweight aggregate, etc. The fusion insulation and decorative panel resolves panel flatness problems and offers higher strength, as an upgraded aluminum-faced insulation and decorative panel.

Insulation layers: thermoset polystyrene board, rock wool board, graphite polystyrene board (SEPS), unglazed foam board, foam glass board, etc.

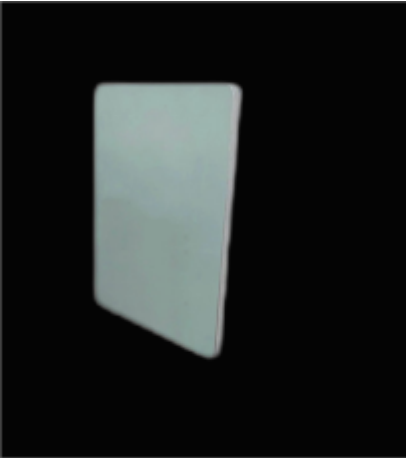
Backing / cement-based substrate: pressed cement board, calcium carbonate board, flexible ceramic panels, aluminum-magnesium-manganese alloy sheet, aluminum-zinc coated steel, zinc-aluminum-manganese steel, fiberglass resin, etc.

Decorative coatings: metallic fluorocarbon paint, solid-color fluorocarbon paint, fluorocarbon color printing, stone-effect paint, stone-flake paint, multicolor stone-effect paint, fluorocarbon stone-grain coating, wood-grain transfer printing, etc.



Common one-piece insulation board

Common Insulation & Decorative Panels



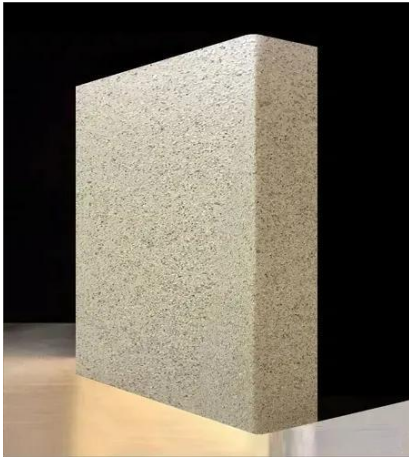
4 mm Aluminum Composite Panel



Metal / Aluminum-Steel Faced Insulation Panel



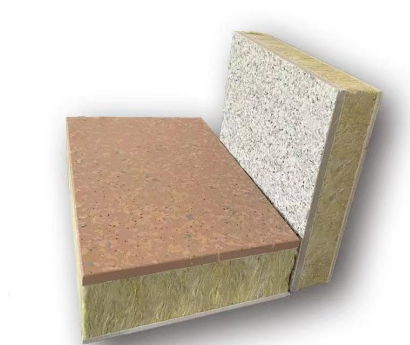
Ceramic Insulation Panel



Flexible Ceramic Insulation Panel



Stone Insulation Panel



Calcium Silicate Insulation Panel

C

omparison of thermal insulation decorative integrated plate with thin plastering and stone curtain wall

Insulation & Decorative Panels vs. Thin Render and Stone Curtain Walls

	Integrated Panels	Traditional Thin Render	Stone Curtain Wall
Substrate Flatness	Factory mechanized production; flat, smooth substrate.	Manual site rendering varies by worker; uneven surfaces, ripples and pinholes.	Natural stone surfaces are flat and smooth.
Paint Finish	Dust-free automatic factory rolling or spraying; smooth finish, consistent gloss and color.	Manual spraying is weather-sensitive; mottling, streaks and runs can occur. Color is hard to control.	Factory polishing gives a smooth, bright finish and consistent gloss, but color variation can occur.
Decorative Effect	Excellent	Average	Excellent
Quality	Factory prefabrication ensures quality, attractive facings and long service life. Insulation and decoration are integrated. Minimal workmanship effects; high finished flatness. Energy performance meets or exceeds national standards.	Entirely manual site work makes quality hard to guarantee. Insulation substrate flatness and workmanship are critical; otherwise facings may detach or become uneven. Average service life. No self-cleaning effect, affecting facade appearance.	Factory production; quality depends on the stone itself.
Construction Time	Fast and easy; insulation and decoration completed together, about 45 days.	Phased, overlapping work; highly weather-dependent and cumbersome, about 90 days.	Phased, overlapping work, about 60 days.
Service Life	Over 25 years	3-5 years	Over 25 years
Drawbacks	No obvious drawbacks	No self-cleaning; severe substrate cracking affects decoration and insulation.	Problems may occur and affect the decorative finish.

Compared with traditional thin-render insulation and stone curtain walls, integrated insulation and decorative panels offer:

1. Factory prefabrication: combined insulation and decoration reduces site work.
2. Diverse finishes, as attractive as conventional curtain walls.
3. Combined adhesive and anchor installation, with no risk of falling.
4. Simple installation: setting out + panel bonding + joint sealing + film removal + acceptance.
5. Shorter schedules: most work is completed in the factory, adapting to various site conditions and climates.
6. Rich color choices to express the architectural style.
7. Longer life: over 25 years of decorative service life.

K

ey points and accessories for construction of thermal insulation and decoration integrated plate system

Insulation & Decorative Panels: Installation Controls and Accessories

Butterfly clip for thin-stone insulation & decorative panels

T-clip for coated insulation & decorative panels and thin ceramic panels

Butterfly clip for thin-stone insulation & decorative panels

Joint filler and expansion anchor

Self-knotting expansion anchor for hollow brick walls

Special weatherproof silicone sealant

Performance index of thermal insulation core material

Insulation Core Performance

Key Performance of Class A Fire-rated Insulation Materials

Item	Unglazed Foamed Ceramic Insulation Board		Inorganic Lightweight Aggregate Insulation Board		060 High-density Thermoset Composite Polystyrene Foam Insulation Board	Test Method
Density* (kg/m³)	≤180	≤230	≤230	≤280	160~200	GB/T 5486
Thermal Conductivity (mean 25°C) [W/(m·K)]	≤0.065	≤0.080	≤0.058	≤0.068	≤0.060	GB/T10294 GB/T 10295
Compressive Strength (MPa)	≥0.60	≥0.70	≥0.30	≥0.50	≥0.20	GB/T 5486
Tensile Strength Perpendicular to Panel (MPa)	≥0.15		≥0.10	≥0.15	≥0.12	GB/T 29906
Water Absorption by Volume (%)	≤3.0		≤8.0		≤8.0	GB/T 5486
Drying Shrinkage (rapid method) (mm/m)	—		≤0.8		—	GB/T 11969
Drying Shrinkage (%)	—		—		≤0.3	JG/T 536

Item / Rock Wool	Performance
Thermal Conductivity (mean 25°C) W/(m·K)	≤0.050
Apparent Density (kg/m³)	100~160
Dimensional Stability (%)	≤1.0
Tensile Strength Perpendicular to Panel (MPa)	≥0.08
Compressive Strength (kPa)	≥40
Water Absorption (partial immersion), 24 h (kg/m²)	0.5

Performance index of bonding mortar and plaster slurry

Adhesive Mortar and Basecoat Performance

Adhesive Mortar Performance

Item			Requirement	Test Method
Tensile Bond Strength (MPa) (to cement mortar)	Original Strength		≥0.60	GB/T 29906
	Water-resistant Strength	48 h immersion, 2 h drying	≥0.30	
		48 h immersion, 7 d drying	≥0.60	
Tensile Bond Strength (MPa) (to metal-faced insulation & decorative panel)	Original Strength		≥0.10; failure within insulation material*	
	Water-resistant Strength	48 h immersion, 2 h drying	≥0.06	
		48 h immersion, 7 d drying	≥0.10	
Working Time (h)			1.5~4.0	

Basecoat Performance

Item			Requirement	Test Method
Tensile Bond Strength (to insulation material) (MPa)	Original Strength		≥0.10; failure within insulation material	GB/T 29906
	Water-resistant Strength	48 h immersion, 2 h drying	≥0.06	
		48 h immersion, 7 d drying	≥0.10	
	Working Time (h)		1.5~4.0	

Vertical edge-locked point roof system

Point-supported Standing-seam Roof System

Unique Advantages

Unique advantages

The point-supported standing-seam roofing system, commonly called the “high standing seam,” has long been a mainstream metal roofing profile in Europe and North America. It is now widely used in China for landmark buildings such as airports, railway stations and stadiums.

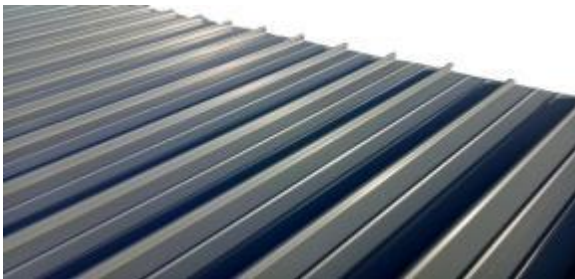
- ☆ Integral waterproofing, high seams and free drainage
- ☆ Excellent wind resistance for typhoon and rainstorm regions
- ☆ No exposed screws or lap joints; a continuous appearance
- ☆ Simple, fast forming and easy construction
- ☆ A choice of colors and materials
- ☆ Curved, tapered and gore-shaped profiles available
- ☆ Relieves thermal expansion and contraction stress
- ☆ Maintenance-free roofing
- ☆ On-site production for extra-long panels

Forming Technology

Molding technology

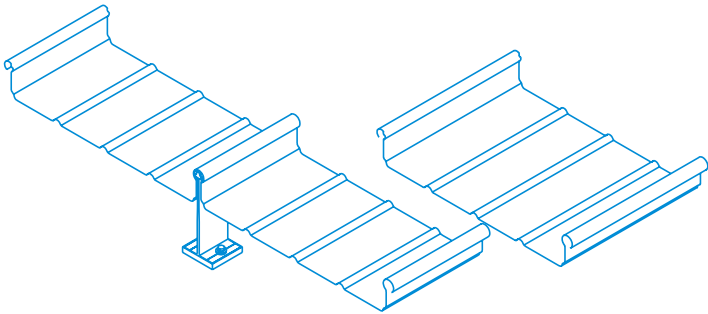


Point-supported Standing-seam Profile



Panel Specifications

Panel Model specifications



Standing-seam Joint Diagram

ZC65-300	
ZC65-330	
ZC65-400	
ZC65-430	
ZC65-500	

Common Profiles and Materials

Common plate types and materials

Standing-seam roof and wall systems offer a choice of materials and surface treatments. In addition to PE polyester coatings, finishes include PVDF fluorocarbon coatings and natural embossed or hammered surfaces. The system offers a range of appearances and finishes, with coatings in almost any color. Alongside aluminum, stainless steel and copper products give discerning architects and designers more high-quality choices.

Al-Mg-Mn Metal Roof

Color-coated Steel Roof



Material Comparison

Features comparison

	Al-Mg-Mn Properties	Color-coated Steel Properties
Durability	Forms an aluminum oxide film in air, preventing further corrosion	Prone to corrosion in humid air, rain and snow, especially at joints
Weight	Lightweight (2,700 kg/m³)	Heavier (7,850 kg/m³)
Strength	Magnesium and manganese provide strength and toughness	Good strength and rigidity
Appearance	Unpainted (hammered, embossed, pre-patinated, etc.) or painted (PVDF/PE/SMP/PVC, etc.)	Painted (PVDF/PE/SMP/PVC, etc.)
Lightning Protection	At thickness ≥0.7 mm, can serve directly as a lightning air terminal, avoiding roof penetrations.	Typical 0.5 mm galvanized or aluminum-zinc coated sheet cannot serve as an air terminal; separate lightning protection is needed.
Fire Safety	Low melting point (660°C). Fire can burn through the roof, allowing flames outward and helping firefighters extinguish the fire.	High melting point (1,515°C)
Value	Higher	Lower

Vertical edge-locked roof system

Fully Supported Standing-seam Roof System

Unique Advantages

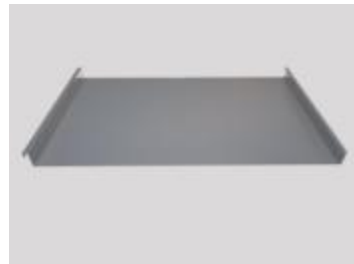
Unique advantages

The fully supported standing-seam roofing system, commonly called the “low standing seam,” uses a 360° double-fold design with a history of more than 200 years. It requires no additional waterproof filler. Mechanical seaming of the panel ribs provides complete resistance to leakage and water penetration. Together with the lower deck, it forms a composite double-layer roofing system that offers excellent building protection and appearance.

- ☆ Excellent overall waterproofing and drainage
- ☆ Simple, lightweight and safe structure
- ☆ Flexible, precise and attractive installation
- ☆ Natural ventilation extends service life
- ☆ Easily accommodates irregular and complex forms

Forming Technology

Molding technology



Straight Panel



Tapered Panel



Curved Panel

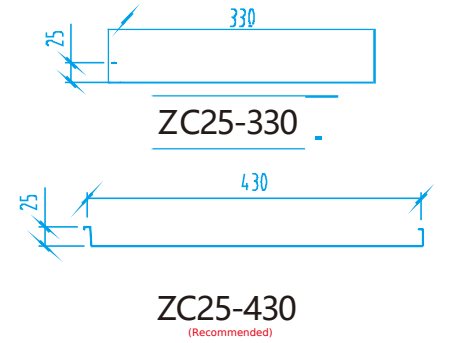
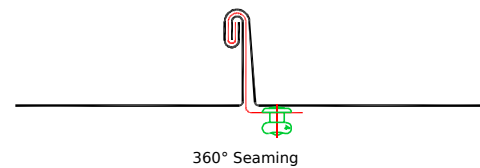
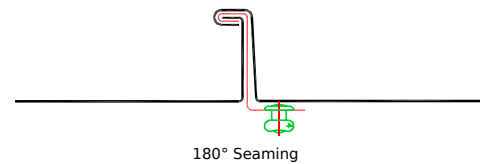
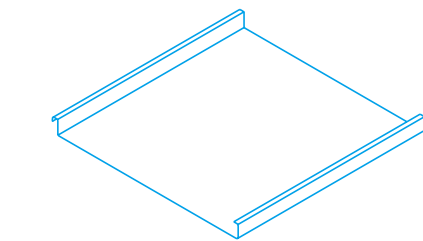


Gore Panel

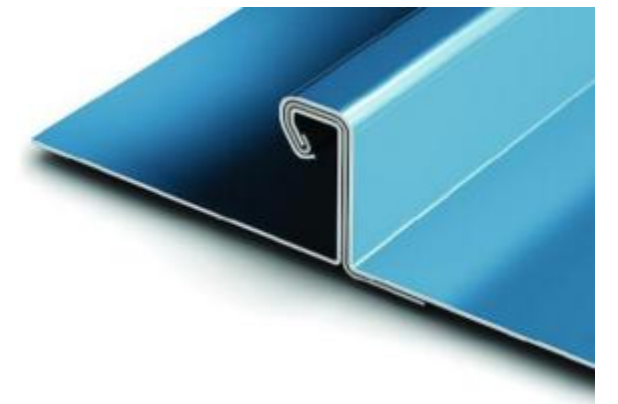


Panel Specifications

Panel Model specifications



Note: Panel width can be customized



Common Profiles and Materials

Common plate types and materials

Low standing-seam roof and wall systems offer a variety of materials. With material utilization of up to 88% and versatile, attractive architectural forms, they are favored by discerning designers. The system makes it practical to specify premium metals for roofing. Available materials include titanium-zinc, copper, stainless steel, aluminum-magnesium-manganese alloy and aluminum-zinc coated steel.



◆ Al-Mg-Mn Sheet

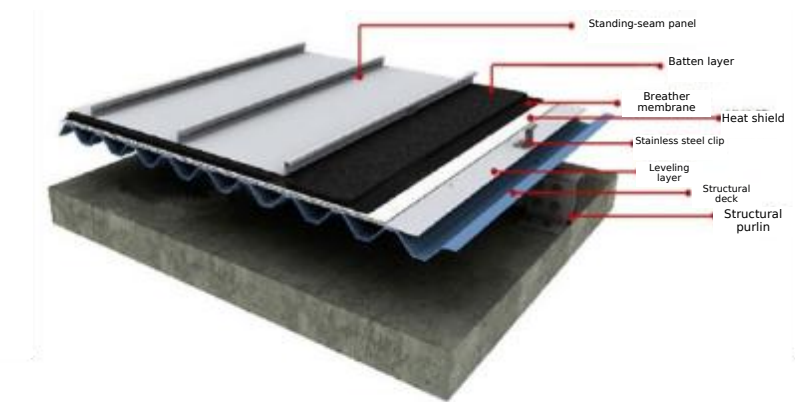


◆ Titanium-zinc Sheet



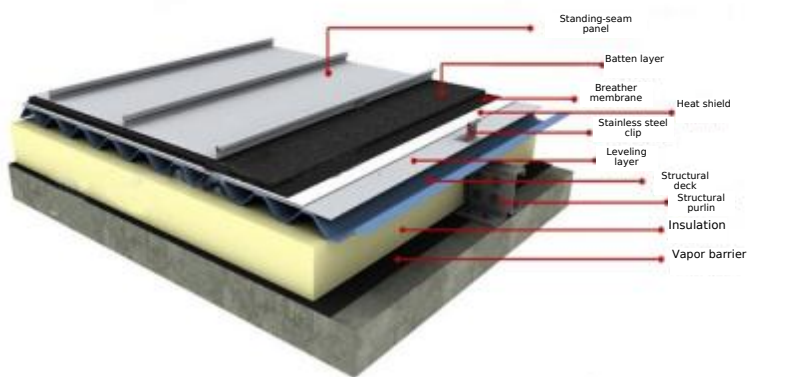
◆ Green Patinated Copper

Structural layer display



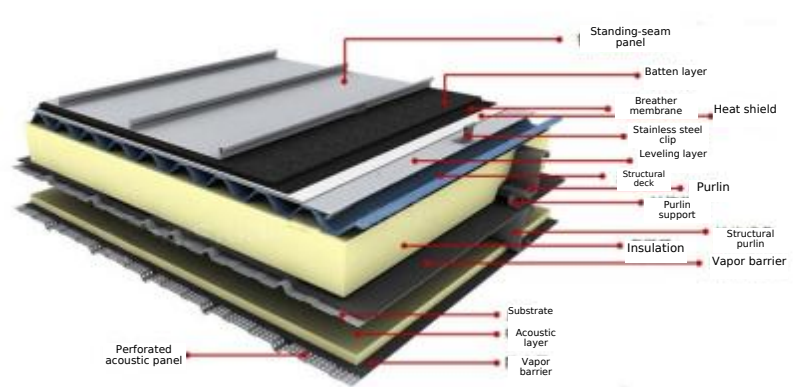
Basic Type

Contracted structure



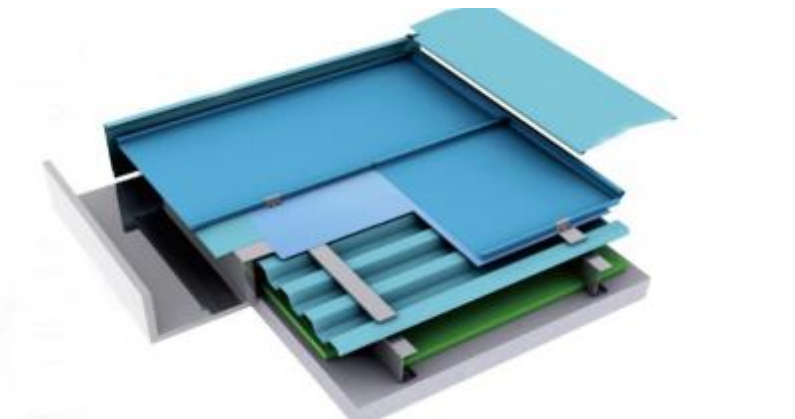
Standard
Type

Standard structure



Multifunctional
Type

Multifunctional type



3D Detail

Stereostructure diagram

Applications

Application scenarios

The fully supported system has ribs only 25 mm high. Its ventilating and noise-reducing mat makes it a “breathing” roof. Mainly used on roofs with slopes $>10^\circ$, it is suited to concrete and multi-pitched roofs, rather than large-span space-frame roofs. Light, elegant and attractive, it is commonly used in modern villas, residential developments, clubhouses and office buildings.

Common profiles: ZC25-430, ZC25-330

Recommended structures: concrete, steel (small span), timber



FASTEN THE LID LOCKING SYSTEM

Batten-cap System

Unique Advantages

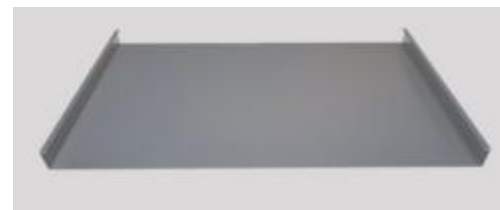
Unique advantages

The batten-cap roofing system is an upgraded development of the low standing-seam system. It offers stronger lines and a more distinctive design, giving the finished roof a more traditional character, greater overall harmony and a smoother transition into the building.

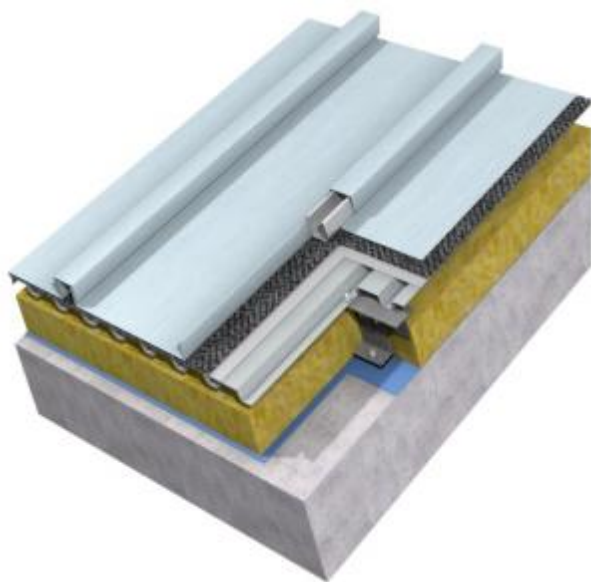
- ☆ Excellent overall waterproofing and drainage
- ☆ Simple, lightweight and safe structure
- ☆ Flexible, precise and attractive installation
- ☆ Natural ventilation extends service life
- ☆ Easily accommodates irregular and complex forms

Forming Technology

Molding technology

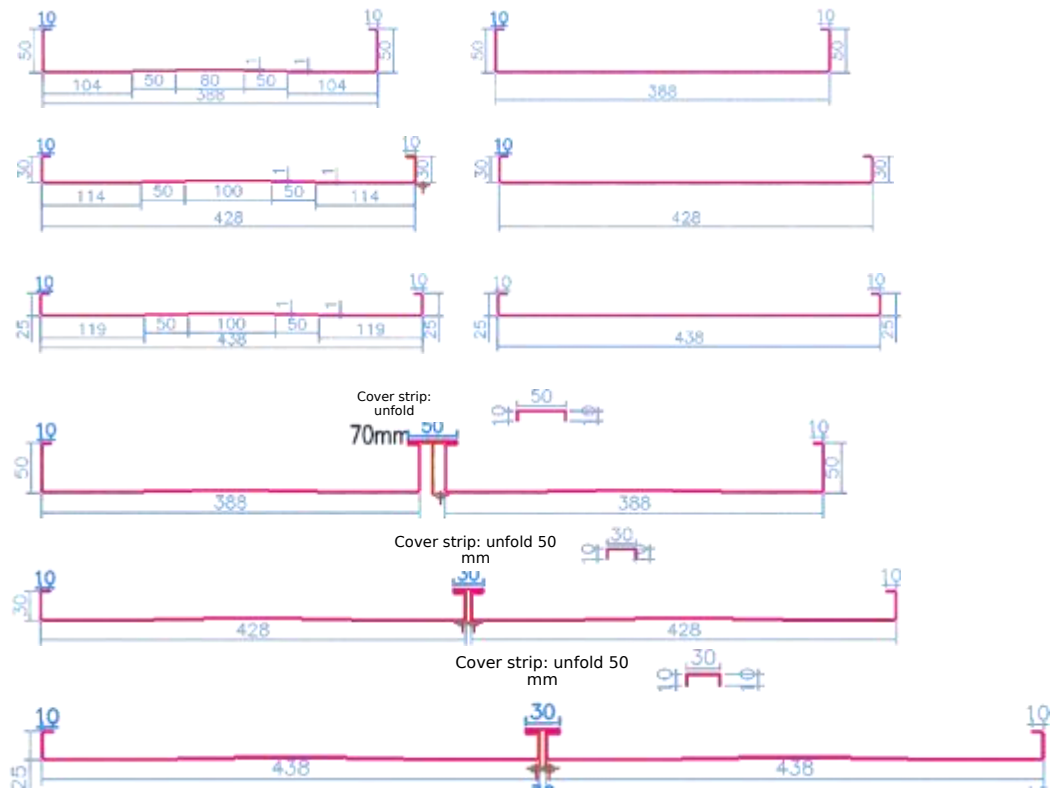


Straight Panel



Panel Specifications

Panel Model specifications



Common Profiles and Materials

Common plate types and materials

Batten-cap roof and wall systems are structurally similar to low standing-seam systems. Material utilization of up to 90% and a distinctive, attractive form give them strong potential to become a mainstream roofing solution. A variety of premium roofing metals are available, commonly including titanium-zinc, copper, stainless steel and aluminum-magnesium-manganese alloy.



PLANAR LOCKING SYSTEM

Flat-lock System

Rectangular Flat-lock

Rectangular plane locking system

This system is mainly used for premium building facades, using high-value metals such as titanium-zinc and copper. It can achieve varied architectural effects according to the designer's vision. Strong layering creates a distinctive visual effect, and the system accommodates almost any complex building surface.

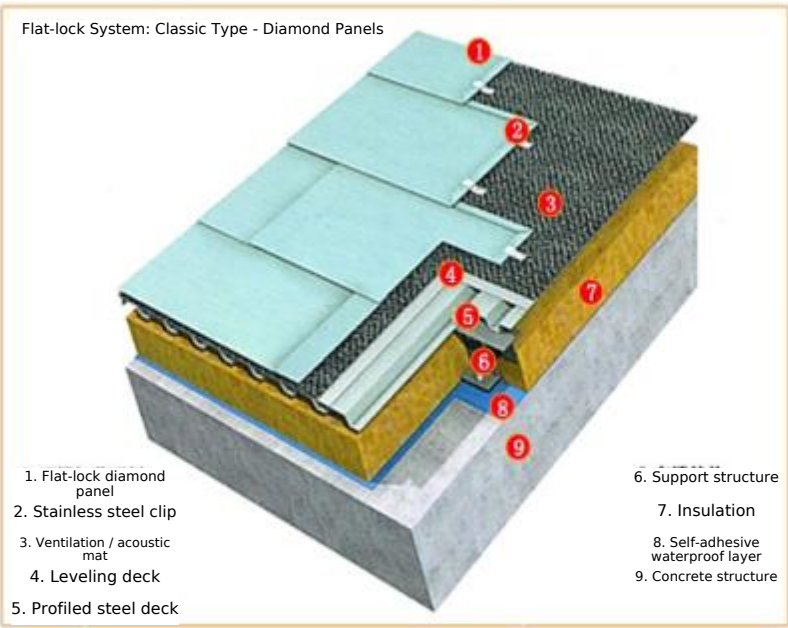
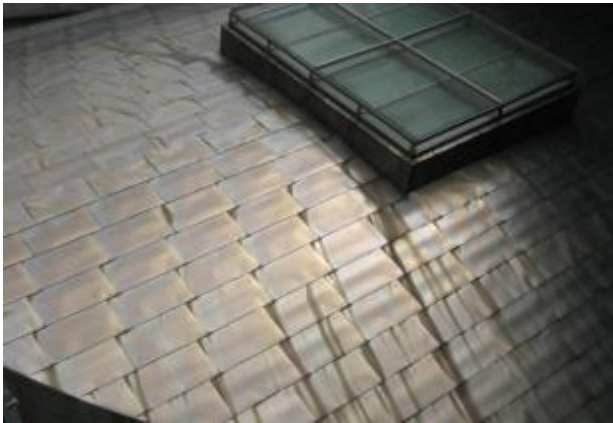
Common Profiles and Materials

Common plate types and materials

Common materials: titanium-zinc, copper, Al-Mg-Mn

Common widths: 350 mm, 400 mm, 500 mm

Common thickness: 0.7-1.0 mm



Diamond Flat-lock

Diamond plane locking system

The relatively small panels are mainly square or diamond-shaped. Overlapping individual panels forms a continuous building surface. Highly adaptable, they can be used flexibly in different designs to create complex exterior wall forms.



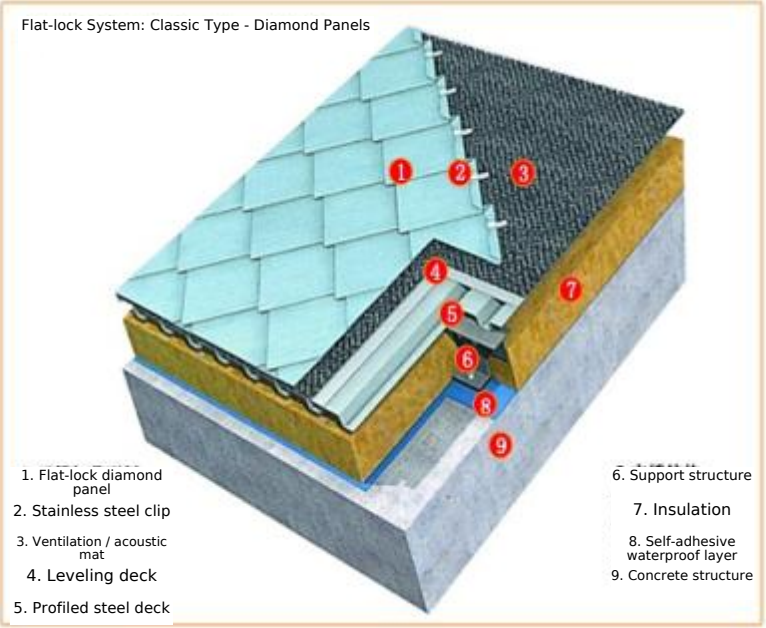
Common Profiles and Materials

Common plate types and materials

Common materials: titanium-zinc, copper, Al-Mg-Mn

Common widths: 200 mm, 275 mm, 350 mm

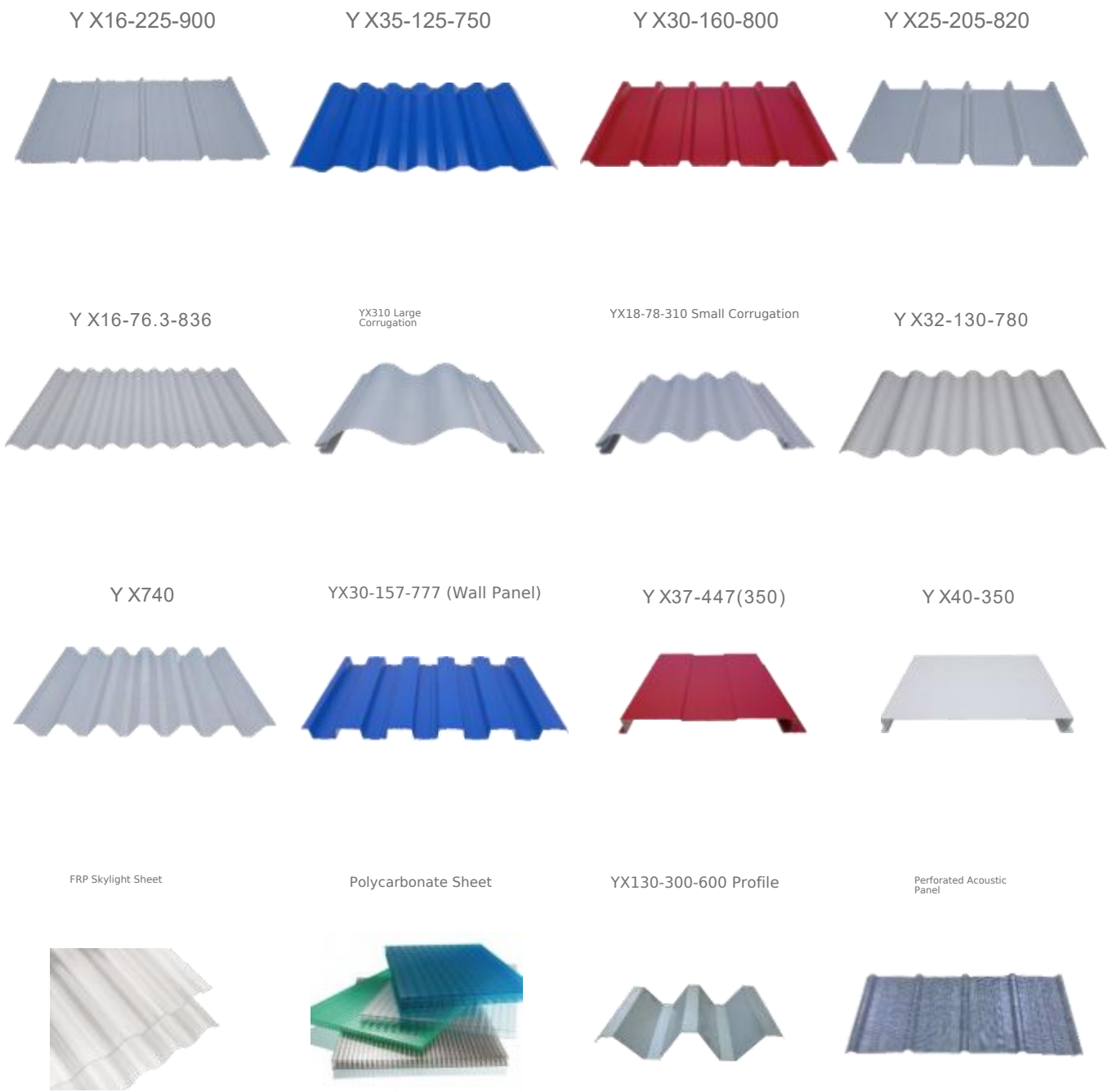
Common thickness: 0.7-0.8 mm



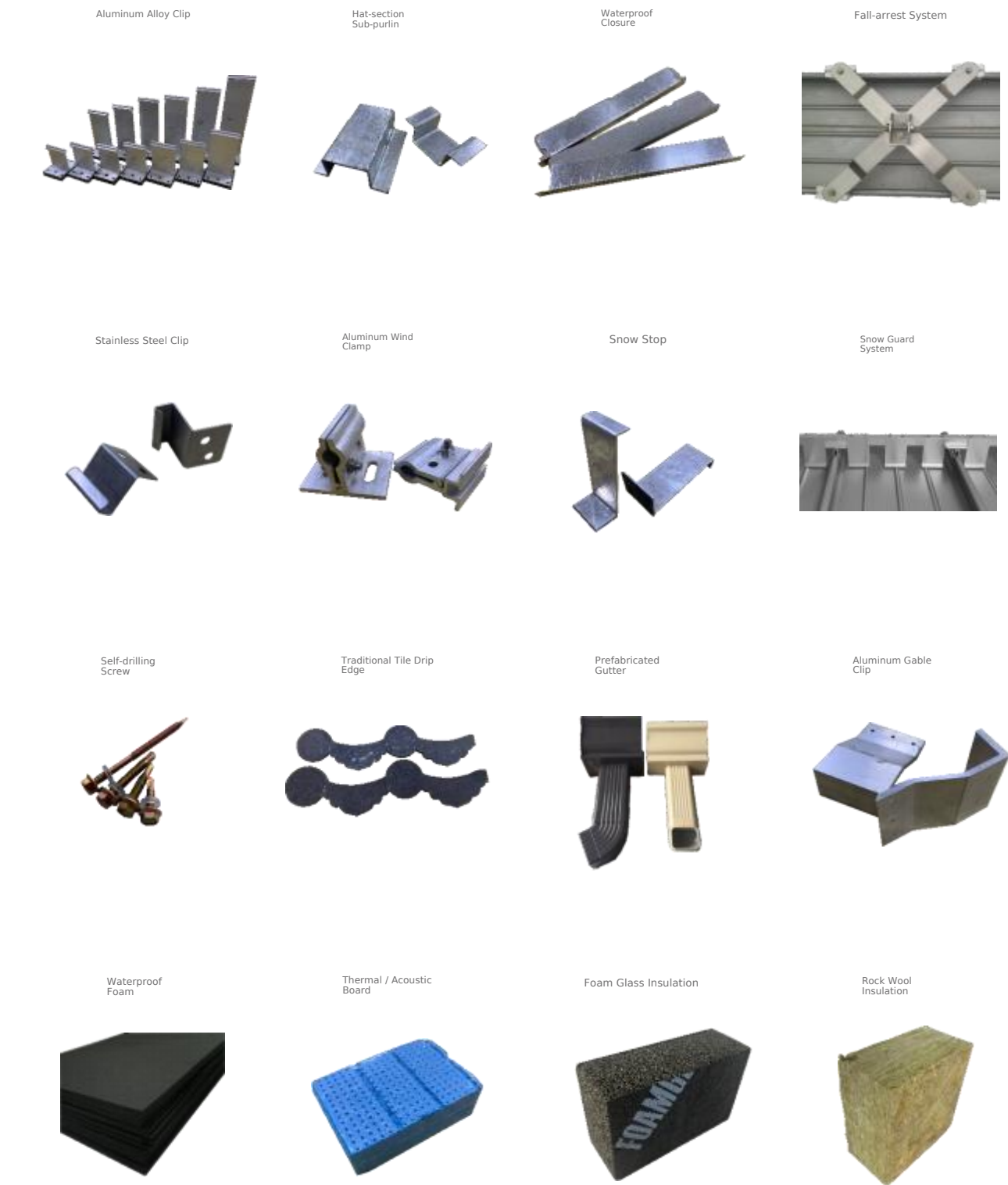
Matching versions and accessories

Complementary Profiles and Accessories

Complementary Profiles
Other plate types of metal roof



Roofing Accessories
Metal roofing fittings



Chinese metal roofing system

Traditional Roof Tile System

Unique Advantages

Unique advantages

Aluminum traditional building systems are widely used on villa roofs, temples, Chinese courtyard houses, urban flat-to-pitched roof conversions and tourist attractions. Rich colors and strong corrosion resistance combine low weight, high strength and decoration. Gentle curves and pronounced steps recreate traditional tile roofs with a strong three-dimensional effect.

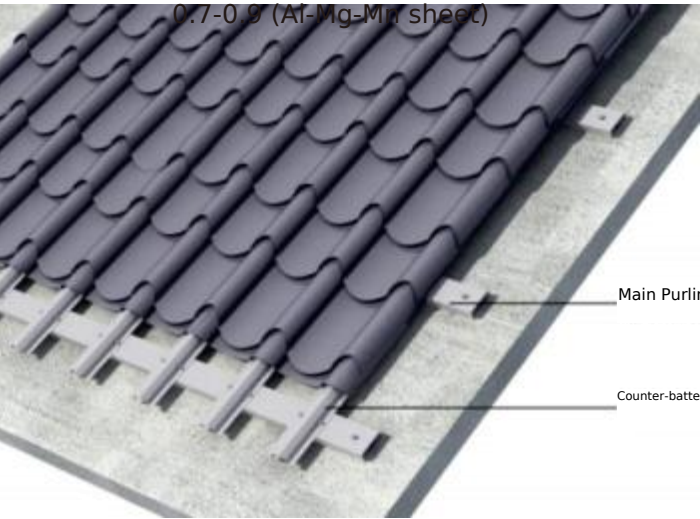
- ☆ Rich colors and classical elegance
- ☆ Lightweight, strong and waterproof
- ☆ Easy and fast installation
- ☆ Long service life

Common Profiles and Materials

Common plate types and materials

Common materials: Al-Mg-Mn and color-coated steel

Common profiles: 828, 765, barrel tiles #1-#4
Common thickness: 1.2-1.5 mm
Al-Mg-Mn sheet



Integrated Traditional Tiles

Conjoined antique tile



ZC-828 (Integrated Tiles)



ZC-765 (Integrated Tiles)



ZC Barrel Tiles #1-#4

Separate Traditional Tiles

Split antique tile



Small Gray Tiles (Separate)



Barrel Tiles (Separate)



Traditional tong wa Qing wa

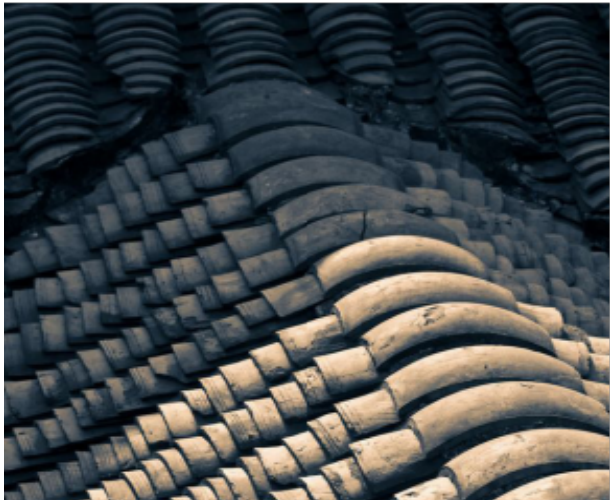
Traditional Barrel and Gray Clay Tiles

- Advantages:
- 1. Locally sourced, low cost;
 - 2. Traditional beauty;
 - 3. Artistic character;
 - 4. Good thermal insulation.
- Disadvantages:
- 1. High breakage rate
- Gray clay tiles are brittle and easily broken during construction, resulting in high wastage.
- 2. Low construction efficiency
- Extra care is needed to prevent tile damage, so installation is relatively slow.
- 3. Regional restrictions
- Clay building materials are restricted in some cities.
- 4. High maintenance cost
- Tiles are easily damaged, require frequent replacement and are costly to maintain.

Modern metal antique tile

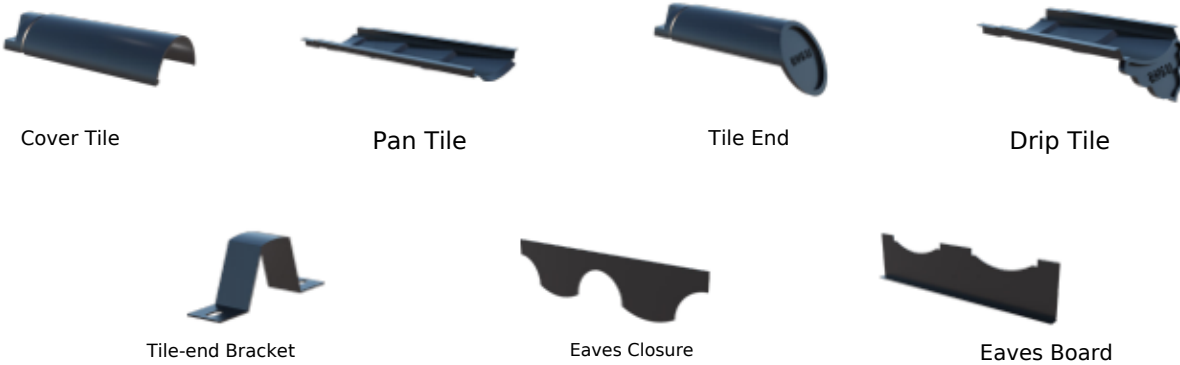
Modern Traditional-style Metal Tiles

- Advantages:
- 1. Lightweight and strong
- Weights less than 1/10 of clay tiles, with strong wind and seismic resistance; suitable for all seismic design zones.
- 2. Efficient construction
- Entirely dry installation with screw anchoring delivers high efficiency, a controllable schedule and little weather disruption.
- 3. Wide application
- Suitable for timber, steel and concrete roofs, and many types of buildings.
- 4. Excellent durability
- Highly durable metal substrates with fluorocarbon coatings resist aging and corrosion.
- 5. Environmentally friendly
- All materials can be recycled and reused, and can remain maintenance-free in service.



specifications and models

Specifications and Models



Product Name	#2 Tile Exposed Size (mm)	#3 Tile Exposed Size (mm)
Cover Tile	165*270	125*270
Pan Tile	185*750	135*750
Tile End	165*270	125*270
Drip Tile	185*300	135*250
Tile-end Bracket	58*144	38*104
Eaves Closure	130*700	130*540
Eaves Board	140*700	140*540

5052 Aluminum Sheet

5052 aluminum sheet is an Al-Mg alloy in which magnesium is the main alloying element. It is one of the most widely used corrosion-resistant aluminum alloys, with high strength, particularly fatigue strength, and high ductility and corrosion resistance. It cannot be strengthened by heat treatment. Ductility remains good in a semi-cold-worked condition but is low after cold work. It has good corrosion resistance and weldability, poor machinability, and can be polished.

Fluorocarbon Paint

Fluorocarbon paint is a coating whose main film-forming substance is fluororesin; it is also called fluorine coating or fluororesin coating. The high electronegativity of fluorine and the strong carbon-fluorine bond give these coatings outstanding weather, heat, low-temperature and chemical resistance, as well as distinctive non-stick and low-friction properties.

Color Selection

Colors can be sampled to suit project requirements. Standard colors are classical gray, gilded yellow and sky blue.



Integrated plate case of thermal insulation and decoration

CASE SHOW



Xiasha Yanyu Chunfeng Residences

System: 1.0 mm aluminum-zinc-magnesium coated steel facing + 40 mm inorganic lightweight aggregate

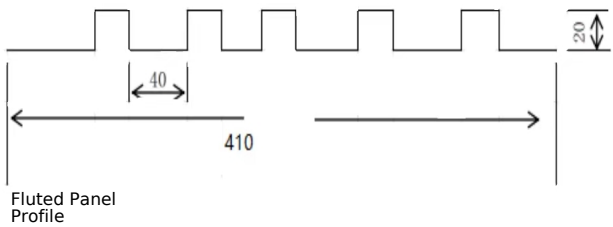
Integrated plate case of thermal insulation and decoration

CASE SHOW



Shaoxing Youchuang Industrial Park

System: 1.2 mm aluminum facing + 50 mm inorganic lightweight aggregate



Deqing Fengming
Heyuan

System: 1.2 mm aluminum facing + fluted panel facing + 35 mm thermoset insulation



Greentown Xiaofeng Yinyue, Taizhou,
Zhejiang

System: 2.5 mm aluminum facing + 40 mm rock wool + calcium silicate board

Insulation & Decorative Panel
Projects

Integrated plate case of thermal
insulation and decoration

CASE SHOW



Zhongtong, Gaoyuan
Construction

System: 1.5 mm aluminum facing + 30 mm rock wool + backing



CASE SHOW



Insulation & Decorative Panel
Projects

Integrated plate case of thermal
insulation and decoration



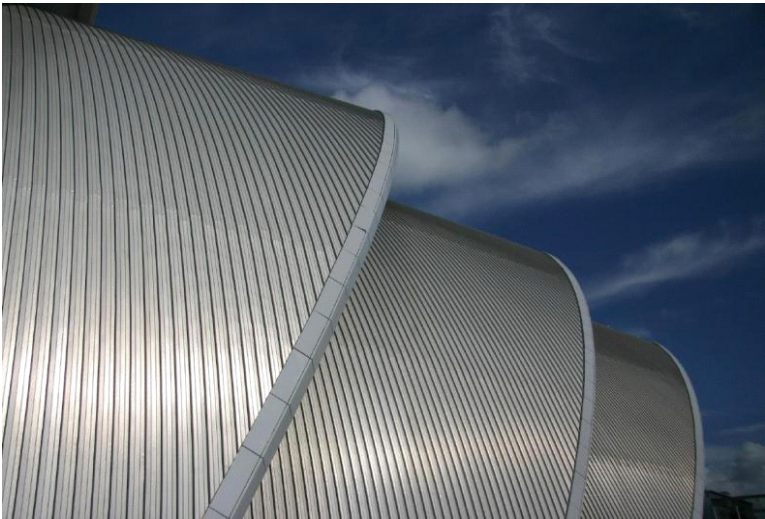
Nanjing Baojin Yuntai

System: 1.5 mm aluminum facing + 50 mm rock wool + backing



Minggang Airport, Xinyang,
Henan

System: 65-series Al-Mg-Mn roofing, 12,000 m²
Structure: double-curved tubular truss



Xiapu County Swimming Hall,
Fujian

System: 65-series Al-Mg-Mn roofing, 7,500 m²
Structure: tubular truss





Lanzhou Public Fitness Center

Roof: 65 high standing-seam Al-Mg-Mn system

Roof area: 9,000 m²

Main structure: concrete and steel

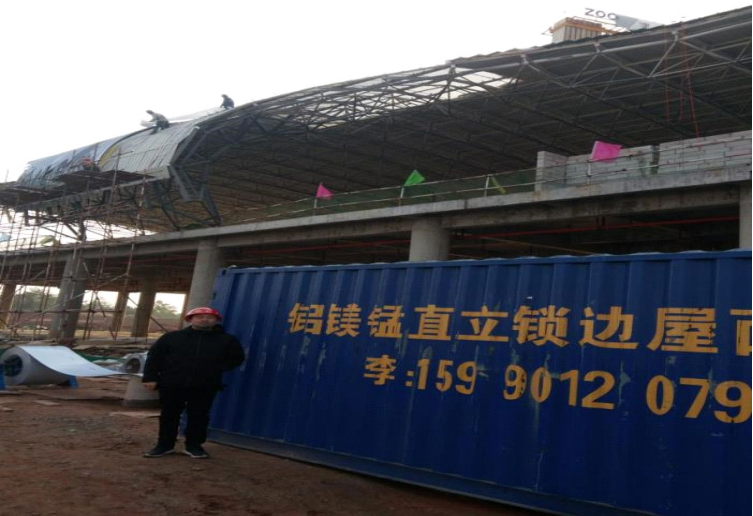
This project uses a 65/430 point-supported standing-seam aluminum-magnesium-manganese convex roof system. The roof is single-curved, while high standing-seam panels are installed horizontally on the walls. Following the original structure avoids extra framing. Horizontal panels provide an attractive finish, and overlapping joints prevent leakage.



Huangjin Airport, Duanzhou, Jiangxi

System: 65-series Al-Mg-Mn roofing, 15,000 m²

Structure: space frame with curved panels



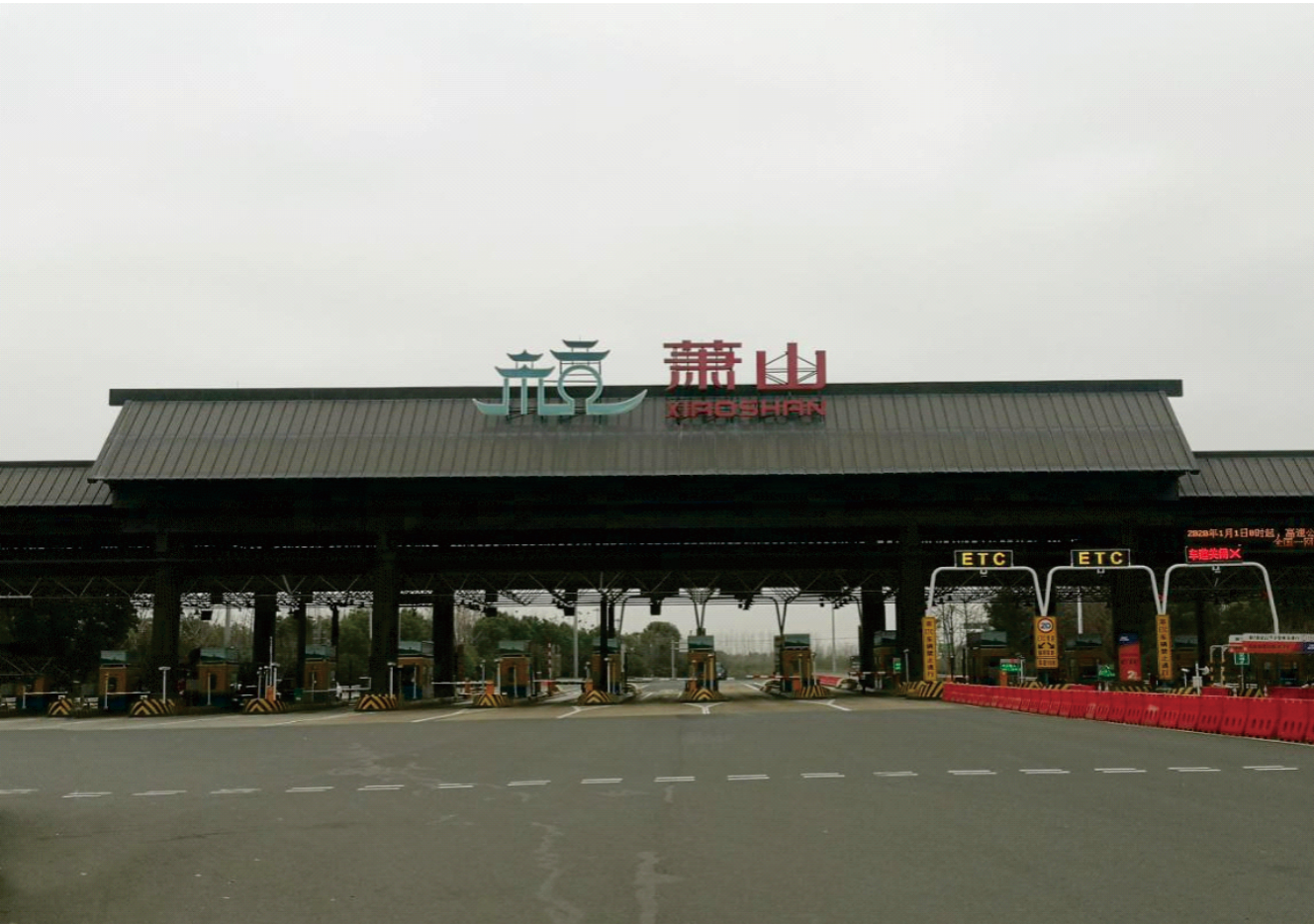


Gansu Bamboo Slips Museum

Roof: 25-series low standing-seam titanium-zinc system

Roof area: 8,500 m²

The architectural design of Gansu Bamboo Slips Museum draws cultural symbols from bamboo-slip artifacts, pictographs, Han-dynasty architecture and traditional spatial patterns. These are used innovatively in a simple, modern building form, expressing the concept: “Bamboo slips preserve the classics; wooden tablets carry the Way.”



Hangzhou Xiaoshan Toll Station

System: solid aluminum roofing, 6,000 m²

Structure: steel



Huawei Dome, Songshan Lake,
Dongguan

Roof: 25-series copper roofing system

Roof area: 2,600 m²

Main structure: concrete

The project uses a 25-series fully supported standing-seam copper roofing system. Its spherical dome posed major challenges for design, panel layout and installation joints. After repeated simulations, a segmented, curved gore-panel assembly was adopted.



Pingshan Lake Golden Tent,
Zhangye

Roof: 25-series tapered, curved Al-Mg-Mn system

Roof area: 9,800 m²

Structure: steel

Inspired by Mongolian yurts, the Zhangye Pingshan Lake Golden Tent comprises one main tent and four subsidiary tents. The main tent spans 50 m, and the design limits roof construction load to 50 kg/m². Our low standing-seam solution met the load and functional requirements while preserving the appearance. It ensured buildability, fulfilled the design brief and created a distinctive landmark for the scenic area.





Datang Huaqing City, Lintong, Xi'an

Roof: 65-series high standing-seam Al-Mg-Mn system

Roof area: 10,800 m²

Main structure: concrete construction

Located in the Huaqing Pool scenic area in Lintong, Xi'an, this project uses concave panels in a 65-series point-supported standing-seam aluminum-magnesium-manganese roof system. Multiple separate roofs form a traditional-style complex. All roof forms and lines follow Tang-dynasty architecture. The completed roofs achieve an excellent overall appearance and blend perfectly with the surrounding traditional-style buildings.



Beautiful Village, Kang County, Longnan

Roof: 65-series high standing-seam Al-Mg-Mn system

Roof area: 15,200 m²

Main structure: concrete and steel

Longnan Belt and Road Beautiful New Village Resort is located in Wujiaba, Kang County, Longnan, Gansu, between two mountains. The project includes more than ten individual buildings. Aluminum-magnesium-manganese roofs connect seamlessly with glass curtain walls, fully expressing the architectural design.





Tianma Tourism and Culture Park, Zhaosu County, Ili

Roof: 65-series high standing-seam titanium-zinc system

Roof area: 7,500 m²

Solid aluminum eaves panels: 4,000 m²

Continuous curved roofs connect like a mountain range. Roofs at different heights form staggered layers and peaks, creating clear depth and a strong contemporary artistic character.



Changle Dongzhai Villas, Nantong

Roof: YX50-380 titanium-zinc batten-cap system

Roof area: 8,600 m²

Eaves: 26 mm titanium-zinc honeycomb panels

Curtain wall area: 2,500 m²

The buildings have steep gable roofs. The titanium-zinc batten-cap system gives the architecture a stronger three-dimensional form and greater visual appeal.





Shangyu Campus, Zhejiang Technical College

System: 65-series Al-Mg-Mn roofing, 30,000 m²

Structure: space frame

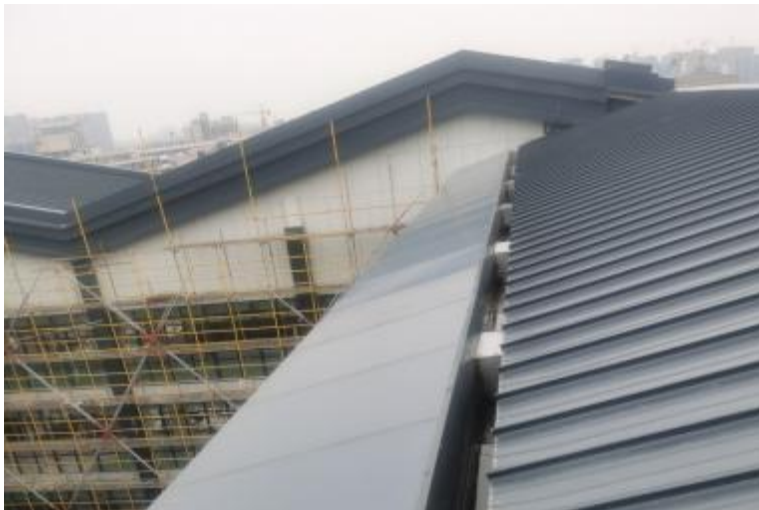


Jinhua Municipal Party School

Roof: 50-series high standing-seam Al-Mg-Mn system

Roof area: 9,000 m².

Stone curtain walls are combined with aluminum panels and glass. Curtain wall areas: aluminum panels 20,000 m²; stone 35,000 m²; glass 10,000 m². The building is clearly layered, simple and composed. The curtain wall wraps the entire building, conveying unity and refinement.





Zhongtian Dongfang Chengpin,
Jinhua

Roof: 25-series Al-Mg-Mn batten-cap system

Roof area: 12,000 m²

The entire building uses a contemporary Chinese style, combining the essence of traditional Chinese culture with modern elements. It fully expresses modern ideas of living and introduces the Chinese courtyard lifestyle, recreating the ideal way of life deeply rooted in Chinese hearts.



Yisu Pedestrian Street,
Xi'an

Roof: 25/65/430 Al-Mg-Mn roofing system

Roof area: 7,500 m²

Main structure: concrete and steel

This project uses both point-supported and fully supported standing-seam profiles. The fully supported roof is combined with a batten-cap system, blending with the pedestrian street's traditional-style architecture. Convex point-supported roofing creates a smooth, harmonious transition between modern roofing and traditional buildings.





Lanling Royal
City

Roof: traditional Al-Mg-Mn metal barrel tiles

Area: approximately
18,000 m²

Lanling Royal City is located in southwestern Lanshan District, Linyi. All pavilion and tower roofs use verdigris-colored traditional metal barrel tiles with gold roof ornaments. The refined, impressive result carries on the essence of Chinese architecture and its unique blend of antique elegance, simplicity and splendor. New materials also greatly extend building life and reduce repair and maintenance costs.



Yizhou Ancient
City

Roof: traditional Al-Mg-Mn barrel tiles

Area: 15,000 m²

All roofs in the Yizhou Ancient City scenic area use traditional aluminum-magnesium-manganese barrel tiles. Long-lasting, lightweight and attractive, the roofs shed accumulated dust through rainwater self-cleaning, making them particularly suitable for traditional-style tourist attractions.





Gonghe County Public Fitness Stadium

Roof: 65-series high standing-seam Al-Mg-Mn system

Roof area: 8,000 m²

Glass curtain wall area: 5,000 m²

Aluminum curtain wall area: 14,000 m²

The curtain wall combines glazing with aluminum dougong bracket forms.

The building echoes the dougong forms of the China Pavilion at the World Expo, extending traditional Chinese architectural culture to a Tibetan autonomous area and expressing the beauty of Chinese architecture.



Longyuan Zhishang Office
Building

Glass curtain wall with solid aluminum decorative trim

Glass curtain wall area: 12,000 m²

Aluminum curtain wall area: 3,800 m²

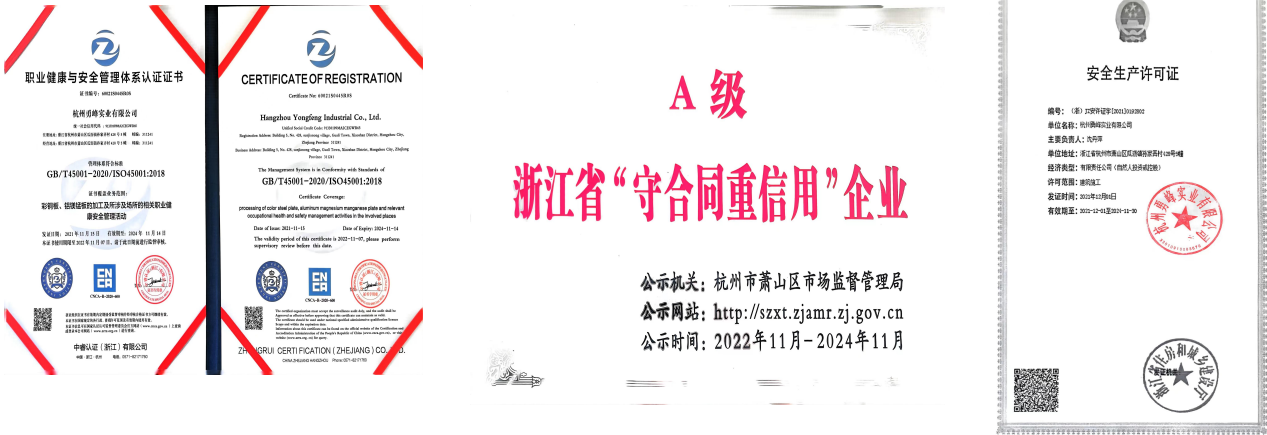
As a modern architectural cladding material, glass curtain walls offer an attractive appearance, safety, energy efficiency and easy maintenance. They are widely used in high-rise, commercial and cultural buildings.



Qualifications
and Honors

QUALIFICATION HONOR

In this world of challenges and opportunities, each of us deserves to be recognized and remembered. These certificates bear witness to our unique achievements and affirm our determination to move forward and surpass ourselves. They represent not only our hard work in integrated insulation and decorative panels, metal roofing and traditional roof tiles, but also our dedication to our dreams and firm belief in success, inspiring us to keep progressing and achieve even more.



A 级
浙江省“守合同重信用”企业

公示机关：杭州市萧山区市场监督管理局
公示网站：<http://szxt.zjmr.zj.gov.cn>
公示时间：2022年11月-2024年11月

Looking
Forward

to Your Cooperation

In the years ahead,
we hope for your continued support.
We will deliver first-class quality and attentive service.

