



雍科 金属外墙与建筑遮阳



Metal Facade and Architectural Sun Louvers

EXPERT OF CUSTOM-MADE
ARCHITECTURAL PRODUCTS



雍科 金属外墙与建筑遮阳

SACHSEN

萨克森 金属吊顶与内装系统



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METAL FACADE AND SUN CONTROL

Sachsen Industries (Jiaxing) Co., Ltd is a globally leading supplier of building product solutions, specializing in the R&D, design, manufacturing, and sales of metal facade, architectural sunshade for UMT brand and metal ceilings, interior systems for Sachsen brand. With extensive experience in major projects and strong product development capabilities accumulated within the sector, UMT Metal Facade & Architectural Sunshade leads the industry in technological advancement. The company provides one-stop professional services through its marketing, service, and technical support centers located in Shanghai, Beijing, Xi'an, Xiamen, and Chengdu.

The R&D and manufacturing base, located in Baibu Economic Development Zone, Jiaxing, Zhejiang, is equipped with first-class facilities, technology, and craftsmanship. It actively promotes the application of advanced technologies such as intelligent production systems, production logistics management, and human-machine interaction. Additionally, the R&D and manufacturing base has been certified under the ISO 9001 Quality Management System, ISO 14001 Environmental Management System, and ISO 45001 Occupational Health and Safety Management System. Committed to continuous improvement, it strives to build a modern factory that prioritizes customer satisfaction, friendly environment and people-oriented practices.

Over the years, we have brought together a large number of industry elites, forming a highly skilled and creative team with extensive industry experience. Guided by the principles of "project-oriented R&D" and "specialized customization", we continuously strive for innovative research and development, precision manufacturing, and customer service. This enables us to provide tailored solutions and robust technical support for our clients' unique needs. Thanks to our expertise and dedication, we have earned the trust and acclaim of architects, designers, investors, and contractors worldwide.

UMT metal facade and architectural sun louvers products have been widely applied in nationally significant and socially influential projects, including public buildings, commercial offices, transportation facilities, administrative institutions, and industrial manufacturing sectors, delivering remarkable achievements and social benefits.



PRODUCT PHILOSOPHY

Green Building Materials

Thirty years ago, the concept of "green materials" was first introduced at the First International Conference on Materials Science Research. It outlined the future direction of building materials and reflected modern society's yearning and pursuit of "people-oriented, environmentally friendly" development principles. Today, healthy, eco-friendly, and safe building materials are widely adopted. The industry has reached a consensus on best practices, including: Rational resource utilization, Reduced energy consumption, Pollution-free production, Solid waste minimization and Full lifecycle management of materials. These principles have become the standard norms guiding the sector's evolution toward sustainability.

Wall materials represent one of the most critical categories of green building materials. In this field, UMT has accumulated extensive practical experience and mastered mature design, fabrication and application technologies. We provide customers with a series of new composite wall panels that offer thermal insulation, noise reduction, lightweight and environment protection properties. UMT approaches wall materials and Architectural Sun Louvers as an integrated system for research and application, emphasizing structural system design to significantly enhance the overall performance of products in real-world applications.

Prefabricated Building

Prefabricated construction represents a major achievement in applying modern industrial technology to the building sector. The concept originated in the early 20th century and was first realized in Europe during the 1960s. In recent years, with rapid advancements in materials, workmanship and information technology, the advantages of prefabricated buildings such as material efficiency, rapid installation, reduced waste and optimized functionality have become increasingly prominent. Since 2015, the Chinese government has introduced a series of policies and regulations to promote prefabricated buildings nationwide, achieving groundbreaking progress. It has become a key driver in restructuring and upgrading China's construction industry.

UMT building products embody the advanced principles of prefabricated building. Our facade and Sun Louvers Series fully leverage the advantages of standardized design, industrialized production and modular construction of prefabricated building in Material structure, System design, Manufacturing processes etc. This makes us maintain industry-leading position all the time. Simultaneously, UMT places strong emphasis on the organic integration of standardized products and customized design to meet clients' diverse and personalized needs, while unlocking the aesthetic potential of prefabricated building.

Flexible Space

In this era of rapid information technology advancement, intelligent building development is flourishing, creating superior living environments and highly efficient workspaces. Building intelligence is a systematic engineering project, encompassing information processing, energy management, security systems, equipment monitoring, and other comprehensive aspects. 'Flexible Space' is a core concept in intelligent building systems. Through intelligent regulation of thermal, photometric, acoustic and other environmental parameters, the system enhances occupants' physiological and psychological comfort while adapting to seasonal variations, temporal requirements, and diverse living/working scenarios. Flexible spaces endow rigid buildings with emotional resonance and vitality.

The intelligentization of building products constitutes one of the core technological means for creating flexible spaces. In this context, UMT approaches the development and application of facade and sun louver products within a broader environmental framework, including factors such as solar exposure, climatic characteristics, geographical environment, seasonal changes, and urban spatial considerations, and they are integrated with intelligent building systems like lighting, air conditioning, and HVAC controls. With a long-term focus on architectural comfort and adaptability, UMT has developed unique solutions for the creation of flexible spaces.



Hangzhou Asian Games E-Sports Venue



Yangtze River Delta Physics Research Center



Hangzhou Olympic Experimental Primary School



100% recyclable

METAL FACADE

Showcasing the Aesthetics of Architectural Facades While Enhancing Functionality and Comfort

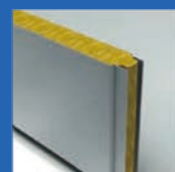
Metal Cladding Systems offer architects expansive design possibilities through comprehensive customization options spanning: Material, Panel form, Joint, Installation system, Color and Surface treatment. Through comprehensive evaluation of both exterior aesthetics and internal structural systems, architects can optimize their design solutions. High-performance facade systems provide robust protection against extreme weather and noise pollution, significantly enhancing building performance and occupant comfort while showcasing contemporary architectural elegance.

- ◆ A diverse selection of composite and solid panel material is available for customization
- ◆ An extensive range of colors and surface treatment to express diverse architectural styles
- ◆ Certified installation systems to ensure building safety
- ◆ Diverse joint configurations to meet varied design requirements
- ◆ Integrated solutions for doors, windows and sun louvers system to be provided
- ◆ Exceptional weather proofing, thermal insulation, ventilation and fire protection performance

Honeycomb Panel



Sandwich wall



Liner facades



Hangzhou Asian Games E-Sports Venue



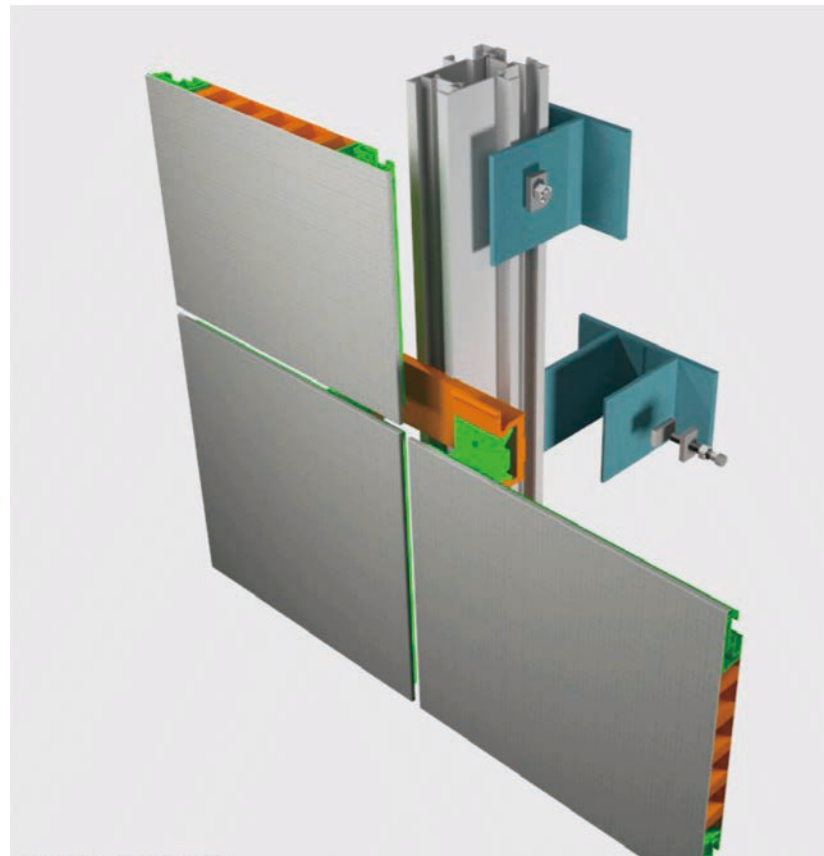
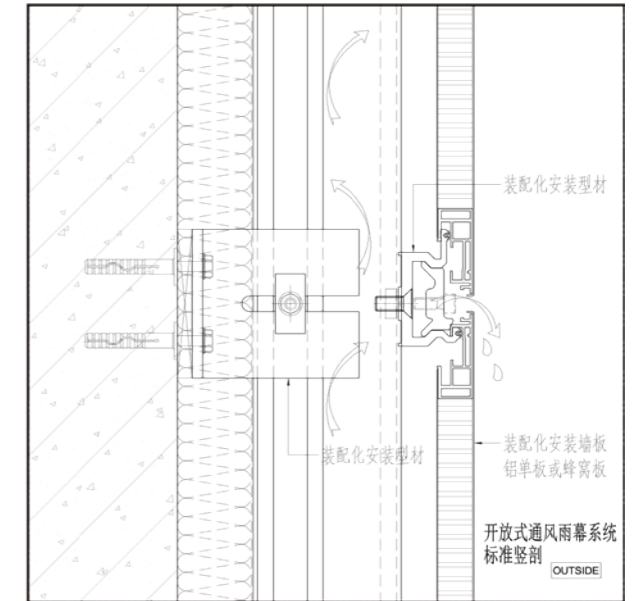
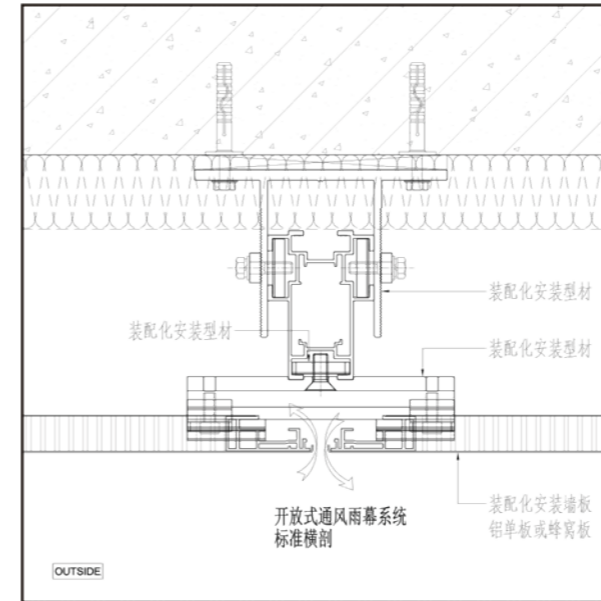
Yangshengtang West Lake Industrial Base

VENTILATED RAIN SCREEN FACADE SYSTEM

Ventilated Rain screen Facade System is an open-joint Facade system based on rain screen principle delivers. The open-joint design facilitates air circulation within the cavity between panels and the thermal/waterproofing layer, creating continuous airflow that significantly reduces building energy consumption. Meanwhile, the pressure-equalized cavity system provides effective drainage pathways for both condensation and rainwater.

The open-joint facade installation system is specifically engineered for prefabricated curtain walls, fully leveraging the advantages of standardized design, industrialized production, and modular construction in prefabricated buildings.

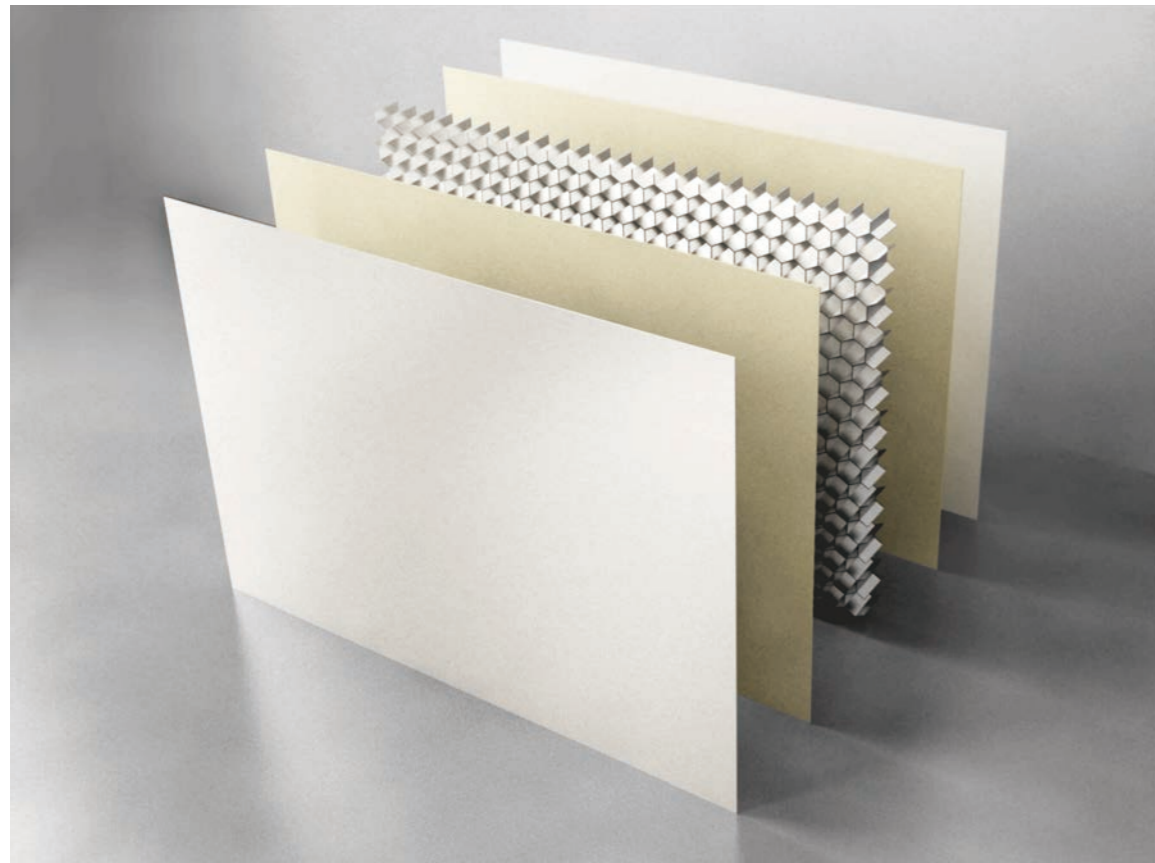
Multiple panel types are compatible with ventilated rainscreen systems as prefabricated facade components, including: Honeycomb cassette panels, Solid cassette panels, Slat solid panels and Sandwich insulation panels.



HONEYCOMB PANEL FACADES

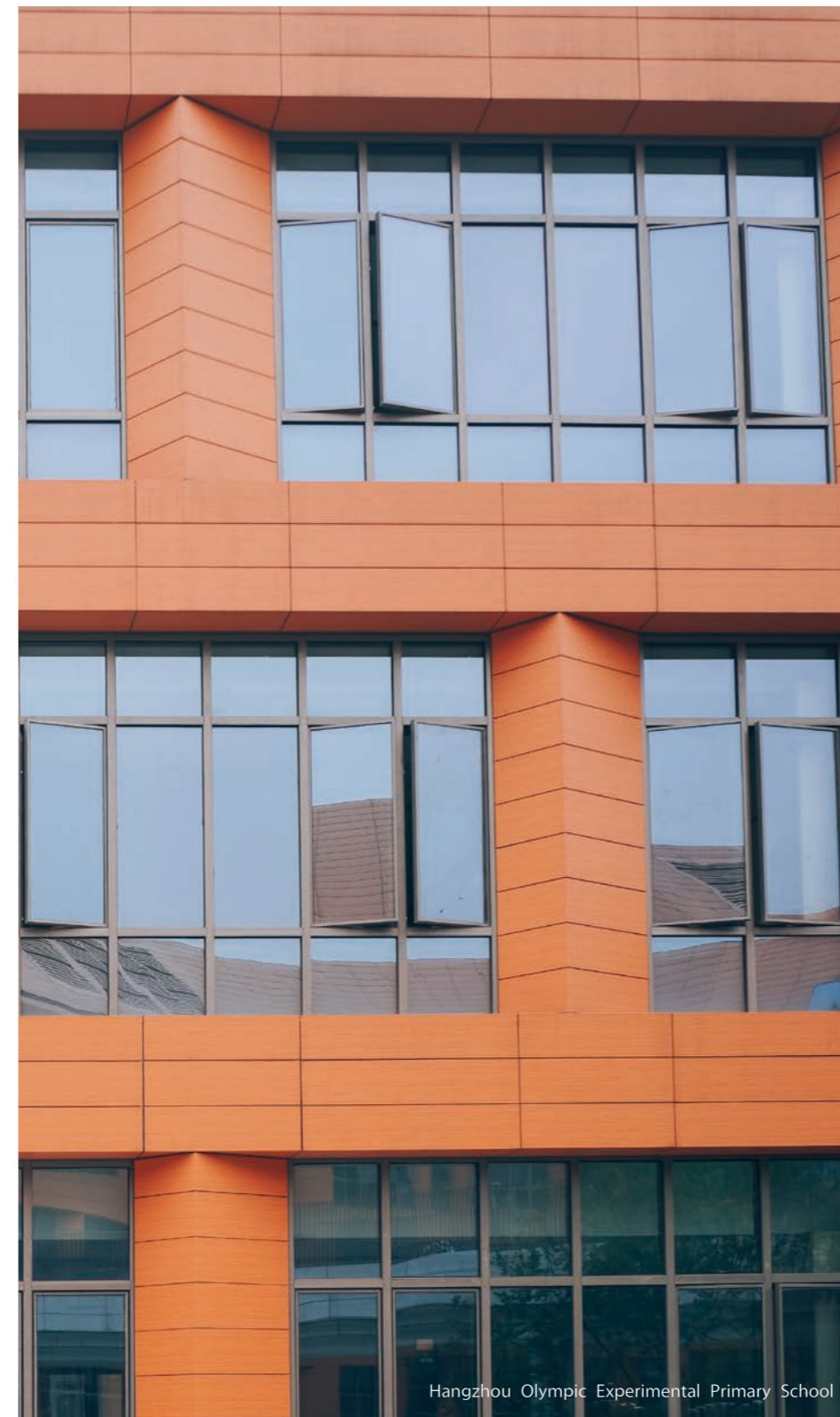
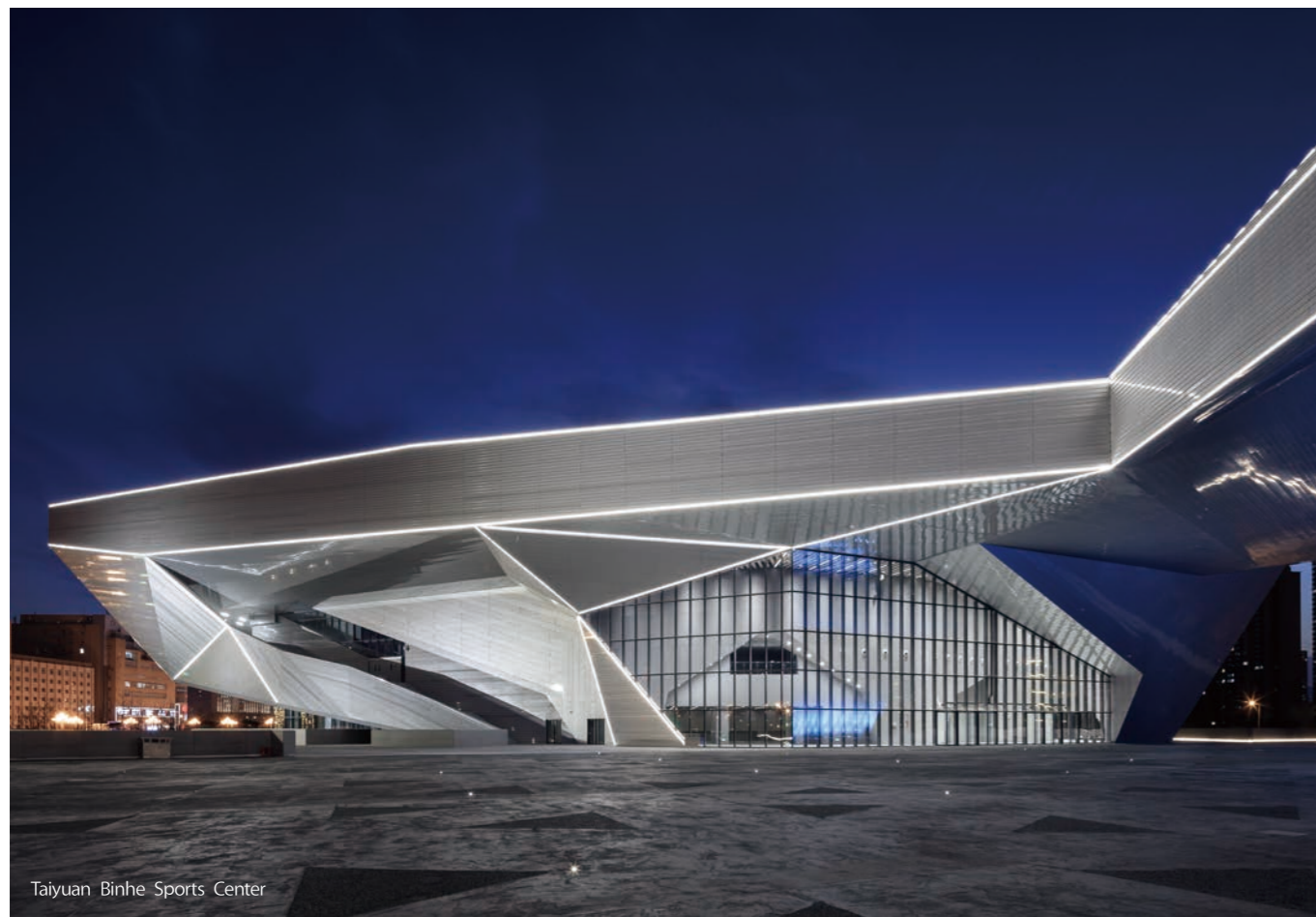
Honeycomb panel manufacturing technology originates from aerospace engineering. As a Facade system, it delivers exceptional durability, oversized panel dimensions, and superior flatness, perfectly embodying the clean, crisp aesthetic of modern building. Cassette honeycomb panels can be bent, offering excellent formability and processing flexibility, with diverse surface treatment options available. Additionally, besides aluminum alloy, the panel materials can be customized to client specifications, including options such as copper, titanium zinc, stainless steel, and more.

- ◆ Standard panel sizes up to 1.8mx12m available, with custom widths exceeding 1.8m upon request
- ◆ The panels exhibit exceptional surface flatness
- ◆ Multiple panel material options available: aluminum alloy, copper, zinc, stainless steel, etc
- ◆ High-fidelity wood grain, stone texture, ceramic panel and other surface treatment available
- ◆ Integrated installation support structure
- ◆ Independent removal and installation of solid panel
- ◆ Multiple joint configurations available: visible seams, concealed seams, open joints, etc.
- ◆ Integrated solutions for doors, windows and sun louvers systems
- ◆ Suitable for exterior ceilings, cornice and column cladding
- ◆ Genuine maintenance-free operation with low costs of use
- ◆ Certified fire resistance and wind-resistant performance



Honeycomb Panel Installation System

To accommodate diverse architectural styles and functional requirements, multiple honeycomb panel installation systems are available, offering architects extensive selection options and design flexibility. In project collaborations, we engage deeply in the design process to fully understand architects' intentions, creatively leverage product capabilities to help realize their objectives.



Open Joint Water Management System



Concealed Sealant Joint System



Adjustable Slotted Joint System





Hangzhou Olympic Experimental Primary School



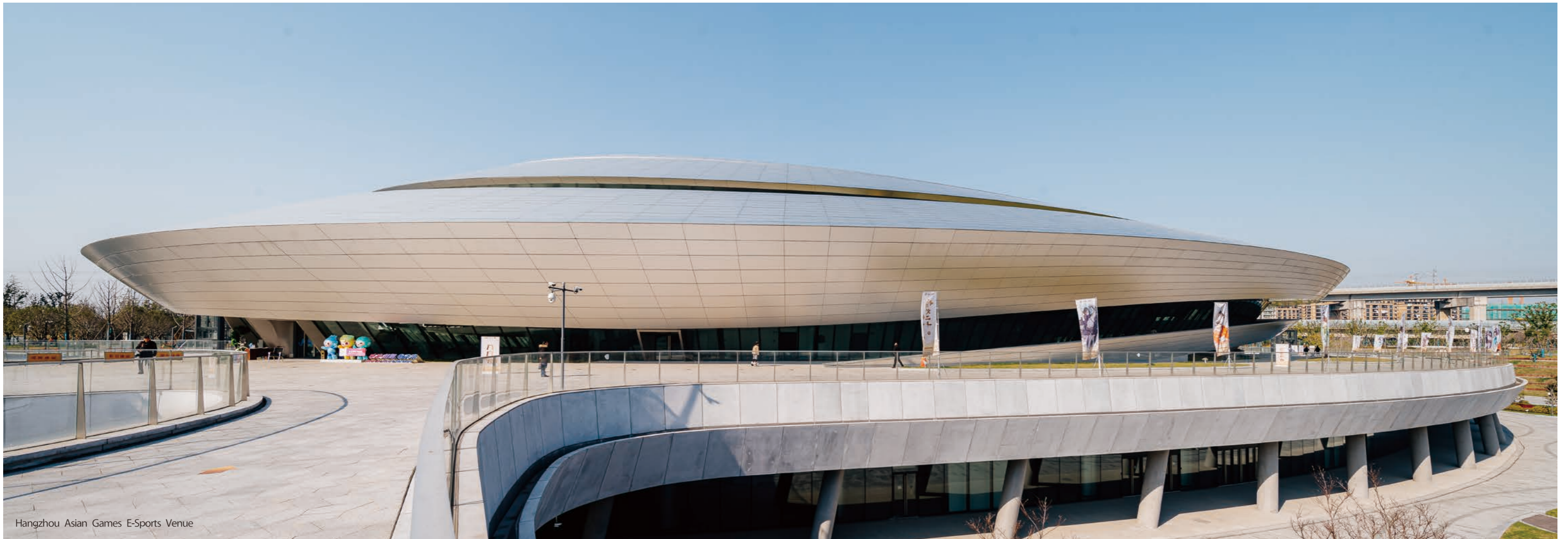
Hangzhou Olympic Experimental Primary School



Hangzhou Asian Games E-Sports Venue



Hangzhou Asian Games E-Sports Venue



Hangzhou Asian Games E-Sports Venue



Chongqing Planning Exhibition Gallery



Chongqing Planning Exhibition Gallery



Chongqing Planning Exhibition Gallery

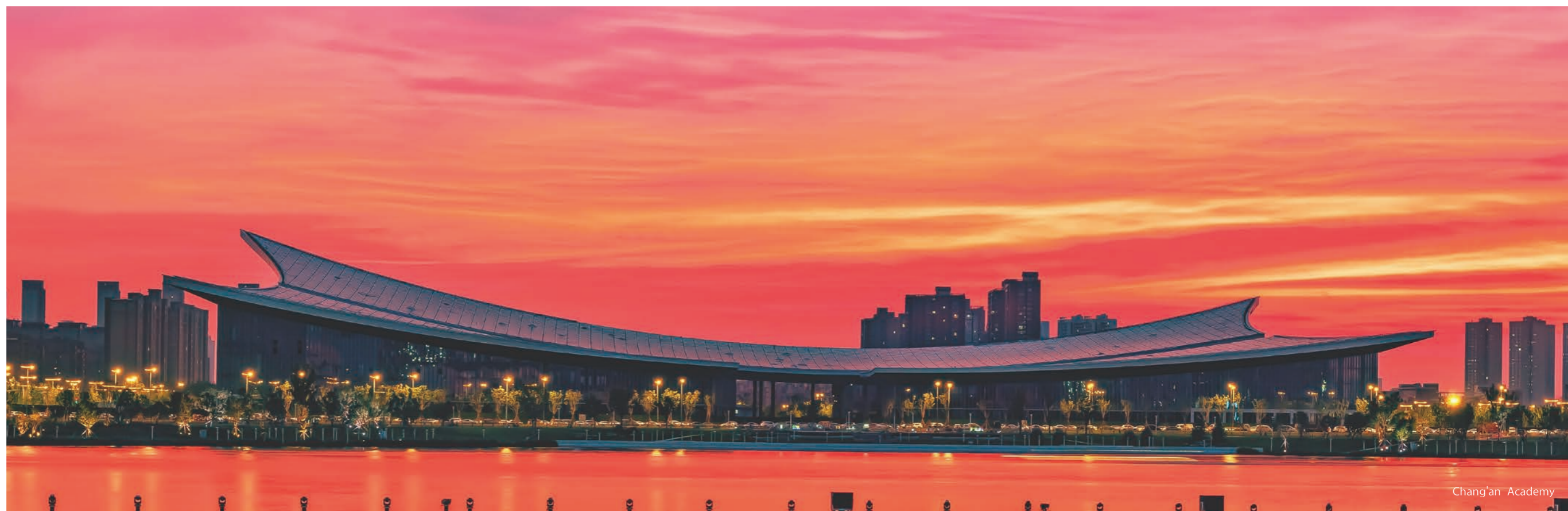
Yangtze River Delta Physics Research Center



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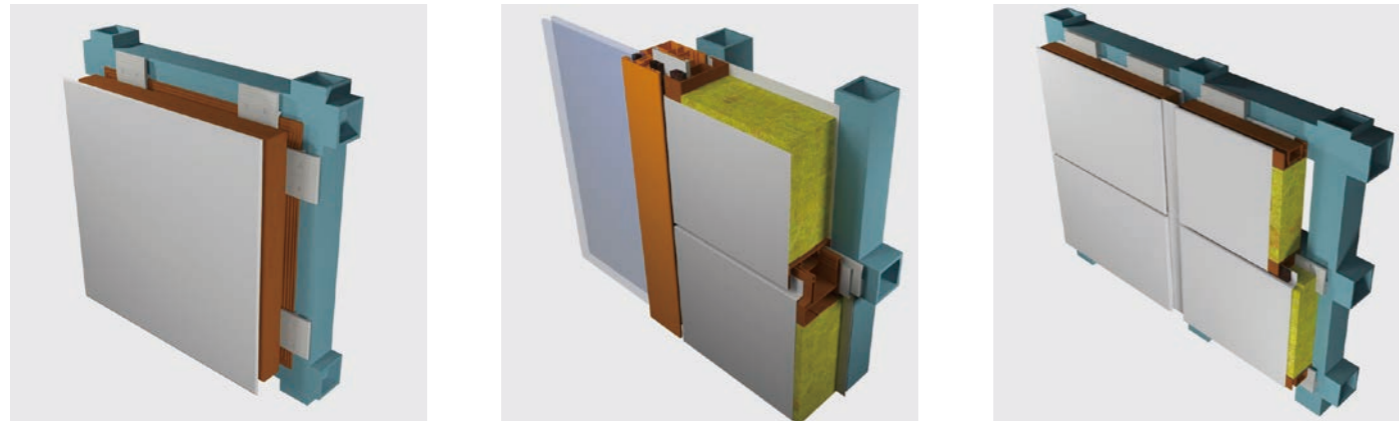
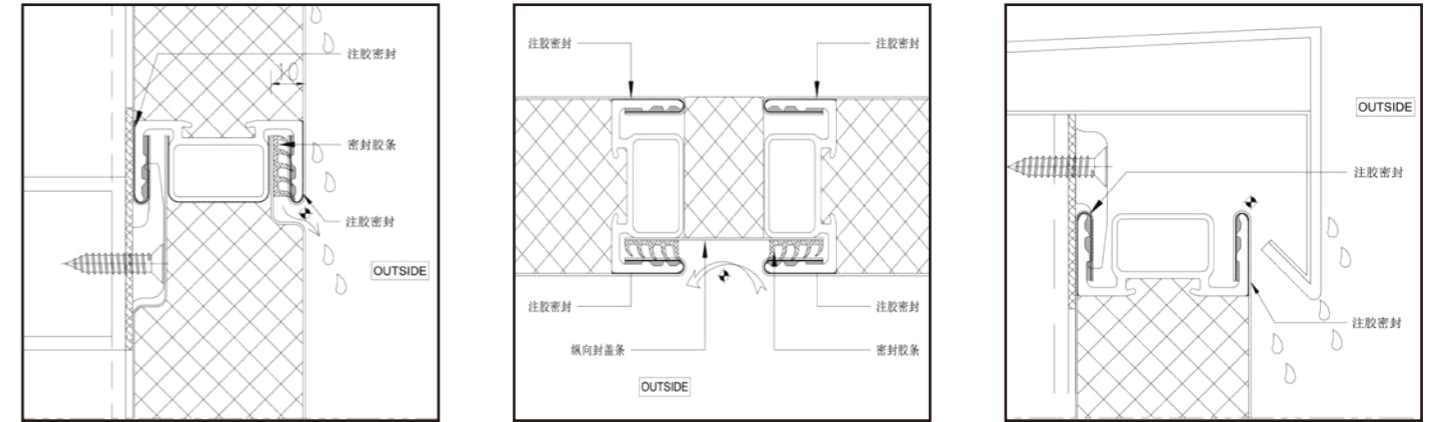
Yangtze River Delta Physics Research Center



PREFABRICATED SANDWICH WALL

Sandwich insulated wall panels involve bonding high-density rock wool between aluminum or steel panels. The panels undergo rigorous thermal, fire, and acoustic performance testing, while offering a complete solution including corner details, joint systems, integrated door/window designs, and special shape designs etc. This represents an advanced facade system that integrates high-efficiency insulation with premium architectural finishes, meeting the comprehensive requirements of modern building facade - structural sturdy, durability, aesthetic appeal, environmental sustainability, energy efficiency, and fire safety. Sandwich insulated wall panels are widely applied in public facilities, industrial plants, commercial buildings, and other sectors.

- ◆ Standard panel thickness options: 35/50/75/100/120/180mm
- ◆ Surface material options include aluminum alloy or galvanized steel
- ◆ Exceptional thermal insulation performance reaching 30 times that of standard concrete
- ◆ Large-format panels with high flatness, available in dimensions up to 1.4m×12m
- ◆ Vertical, horizontal, and independent demountable systems are available, offering both easy installation and structural stability.
- ◆ Integrated design for windows, doors and sun louvers systems
- ◆ Concealed fixation clips prevent thermal bridging and accommodate thermal expansion/contraction



Product Features

- Single Module System: Structural Simplicity, Easy Installation, and High Cost-Effectiveness Perfect for Vertical Single-Story Industrial Plants (Up to 12m in Height)
- Double Module System: Excellent Sealing Performance, Clean Aesthetics, and Strong Modern Sensibility
- Four-Concave-Edge System: Each panel features independent demountability for high installation and maintenance flexibility, with bidirectional deep reveals creating strong linear aesthetics



Yangshengtang West Lake Industrial Base



Fengxi New Town Swimming Center



Tongren Tobacco Factory



Tongren Tobacco Factory

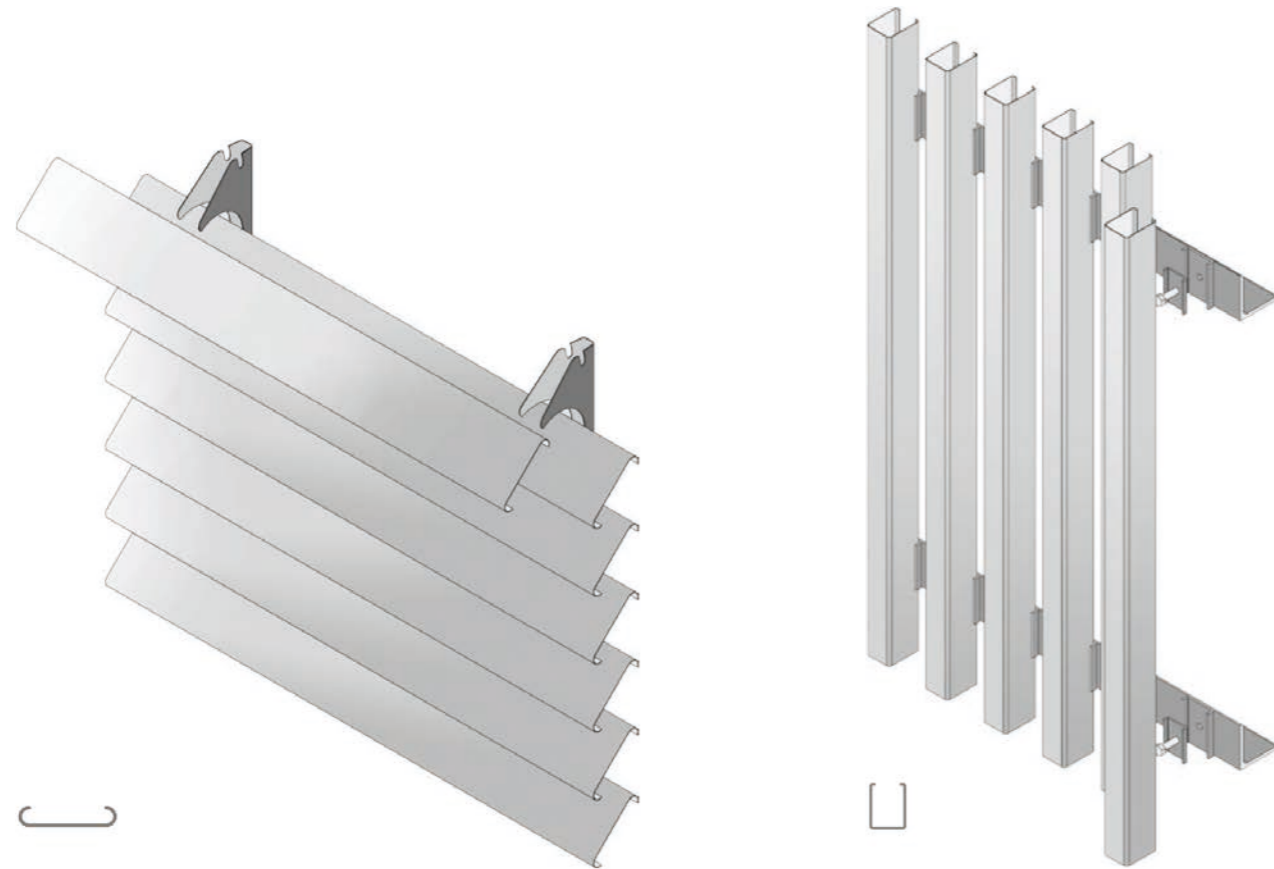


Yangshengtang West Lake Industrial Base

LINEAR FACADES

This is a highly adaptable system with extensive applicability. Strip facade systems are suitable for exterior walls and ventilated enclosures, and can even function as a sunshade system. The support structure of integrated aluminum panel is lightweight and allows for either vertical or horizontal installation. Whether deployed as curtain walls, open staircase facade, or double-skin ventilated systems, strip facade products simultaneously enhance building functionality and impart distinctive aesthetic value to architectural works.

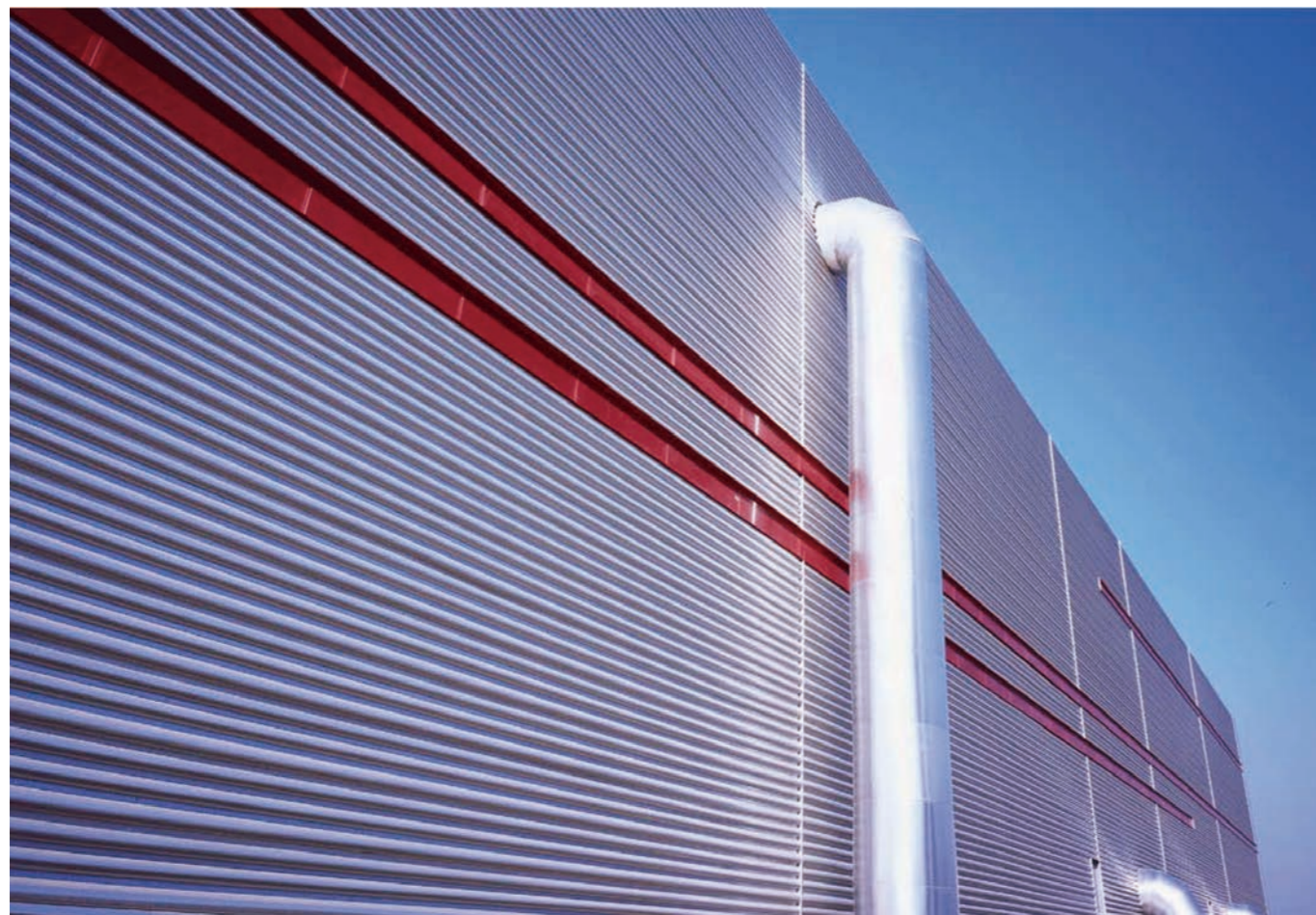
- ◆ Multiple panel profiles available
- ◆ Proven and versatile systems to meet diverse requirements
- ◆ Multiple style options available: panel profiles, joint details, open percentages, colors, etc.
- ◆ Unique reinforced system for super high-rise buildings
- ◆ Custom fabrication available (cutting, curving, etc.) per project requirements
- ◆ Simplified and flexible installation/maintenance reduces construction costs



CUSTOM-MADE PANEL FACADES

Leveraging state-of-the-art equipment, masterful craftsmanship, robust R&D capabilities, and extensive industry experience, we transcend expectations, continuously push boundaries, and provide customers with a diverse range of customized products and metal deep processing services, including: heterotypic solid panels, curved panels, and more – fully meeting clients' diverse and personalized needs.

- ◆ Panel material options include aluminum alloy, galvanized steel, stainless steel, copper, and more
- ◆ Aluminum panel thickness options: 1.0-3.0mm; Steel panel options: 0.7-1.0mm
- ◆ Special panel profiles include: trapezoidal panels, corner panels, polygonal panels, etc.
- ◆ High-fidelity wood grain, stone texture, ceramic panel and other surface treatments available
- ◆ Perforated or plain panel configurations available
- ◆ Precision-engineered installation system design enables rapid construction with individual panel removability and installation
- ◆ The unique open-joint prefabricated system embodies contemporary architectural aesthetics



SUN CONTROL

Environmental friendly
Intelligent flexibility

Adhering to the world's most advanced architectural sun control concepts, we provide architects with systematic solutions for daylight modulation and thermal control. Our premium indoor/outdoor architectural sun louvers products not only deliver multiple green building functionalities, but also provide unique visual aesthetics in terms of architectural decoration, truly integrating performance, practicality and beauty into one system.

- ◆ Perforated Screen Sun Louvers, Aero Foil Sun Louvers, Wing Louvers, Slide-Window Sunshade etc. multiple configuration options available
- ◆ Extensive color options, surface treatments, and perforation patterns available
- ◆ Fixed or adjustable installation systems available
- ◆ Compatible with building intelligent control operating systems
- ◆ Integrated solutions for indoor thermal and lighting regulation
- ◆ Adding dynamism and dimensionality to building facade

Standard



Custom



Window



Yangtze River Delta Physics Research Center

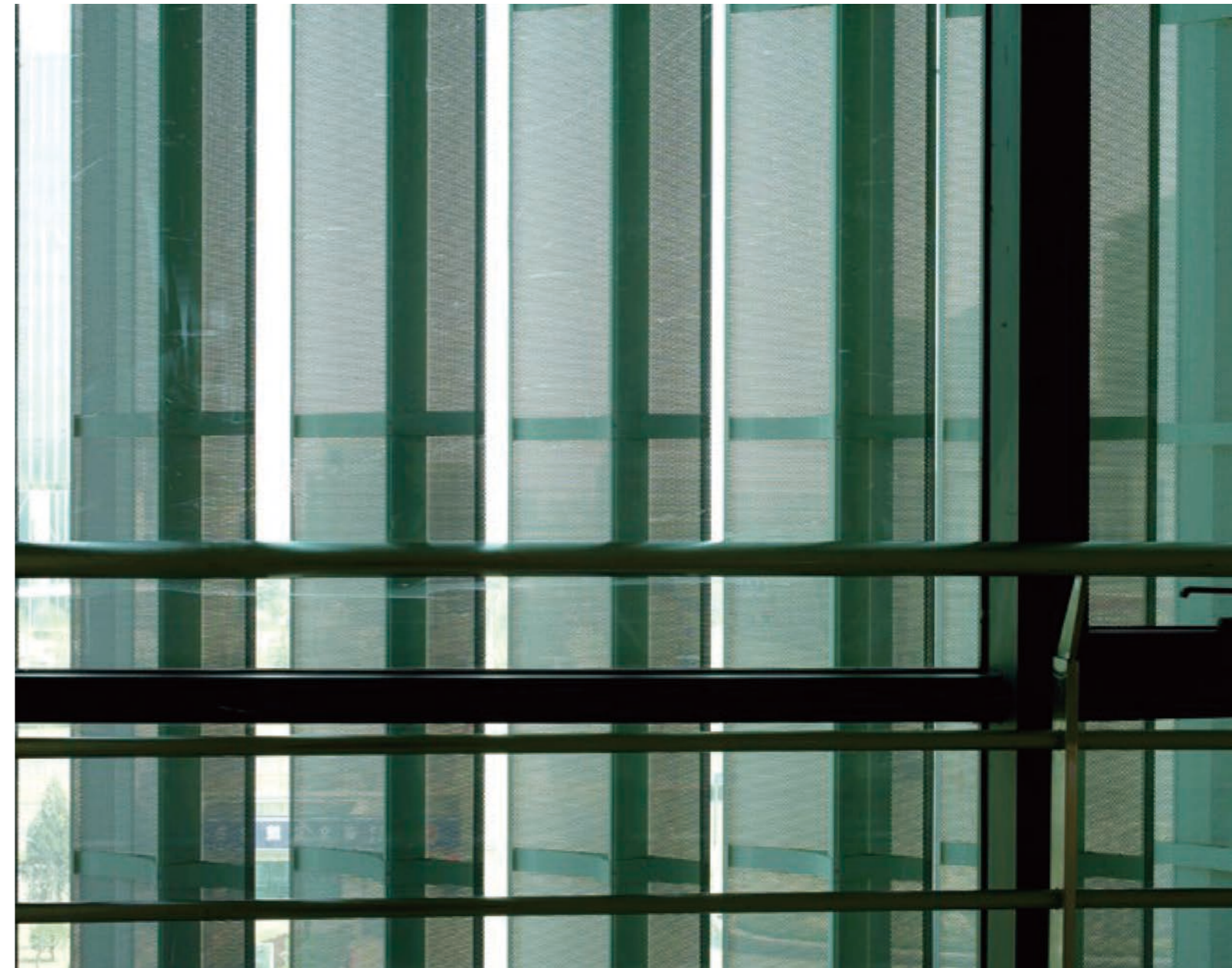
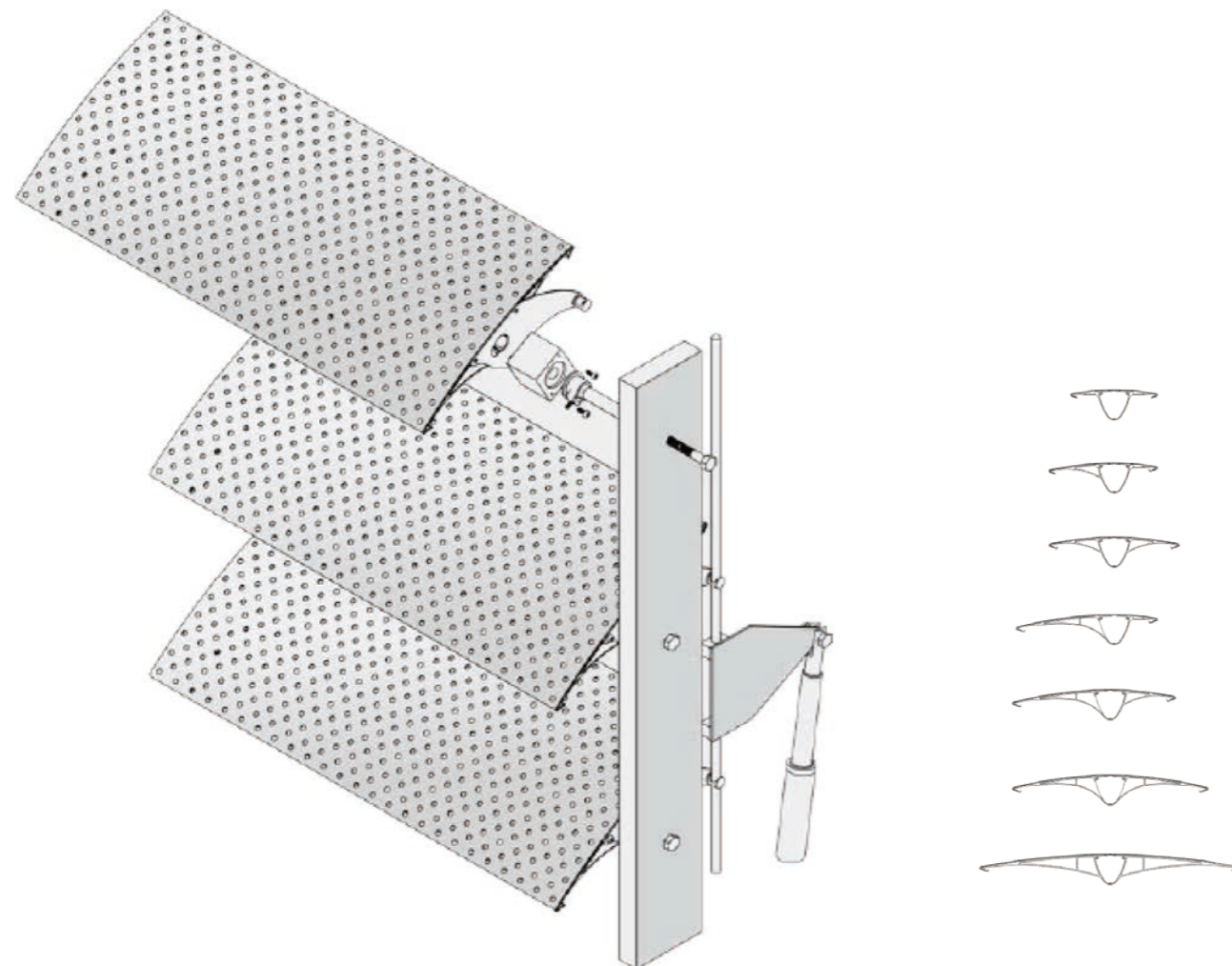


Wuzhen DiShang Hotel

SHUTTERS SUN-CONTROL

Perforated screen sun louvers feature perforations and roll-formed profiles. While providing solar shading and thermal/light control, the sun louvers simultaneously frame outdoor views into interior spaces, expanding visual space and alleviating enclosure fatigue. The perforated screen sun louvers' lightness and transparency create a striking visual contrast with the building's solid exterior, achieving unique aesthetic synergy.

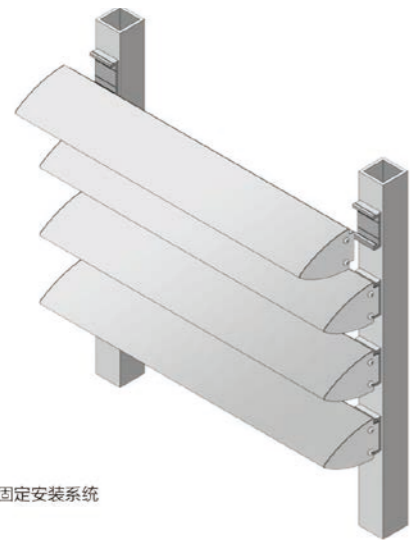
- ◆ Perforated aluminum alloy louvers, roll-formed
- ◆ Surface treatment options include pre-rolled polyester, fluorocarbon, and polyurethane coatings
- ◆ Coating textures can achieve wood grain, bamboo grain, stone grain, and other effects
- ◆ Standard widths: Seven options (200-600mm) for outdoor applications; Six options (150-300mm) for indoor use
- ◆ Available in both symmetrical and asymmetrical profiles
- ◆ Louvers can be arranged horizontally or vertically
- ◆ The system can be installed either horizontally or vertically
- ◆ Two installation systems available: Fixed or Adjustable (automated, timed, and manual)
- ◆ Corner solutions for louver systems available



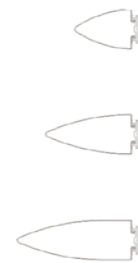
AEROBRISE SUN-CONTROL

Aero foil sun louvers are roll-formed, available in single-wing and double-wing configurations. Double-wing louvers are formed by combining two single-wing louver components. The aero foil sun louvers system features concise construction, precision engineering, and uniquely versatile aesthetics, standing out as a distinctive product within the sun louver series.

- ◆ Aluminum alloy louvers, precision roll-formed
- ◆ Surface treatment options include pre-rolled polyester, fluorocarbon, and polyurethane coatings
- ◆ Coating textures can achieve wood grain, bamboo grain, stone grain, and other effects
- ◆ Standard widths: Three options (100-200mm) for single-wing; Three options (300-505mm) for double-wing configurations
- ◆ Louvers can be arranged horizontally or vertically
- ◆ The system can be installed either horizontally or vertically
- ◆ Two installation systems available: Fixed or Adjustable (automated, timed, and manual)
- ◆ Single-wing configuration is exclusively compatible with fixed installation systems
- ◆ Corner solutions for louver systems available



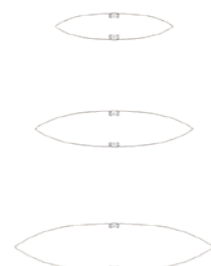
单翼型遮阳固定安装系统



单翼型叶片截面图



双翼型遮阳可调式安装系统



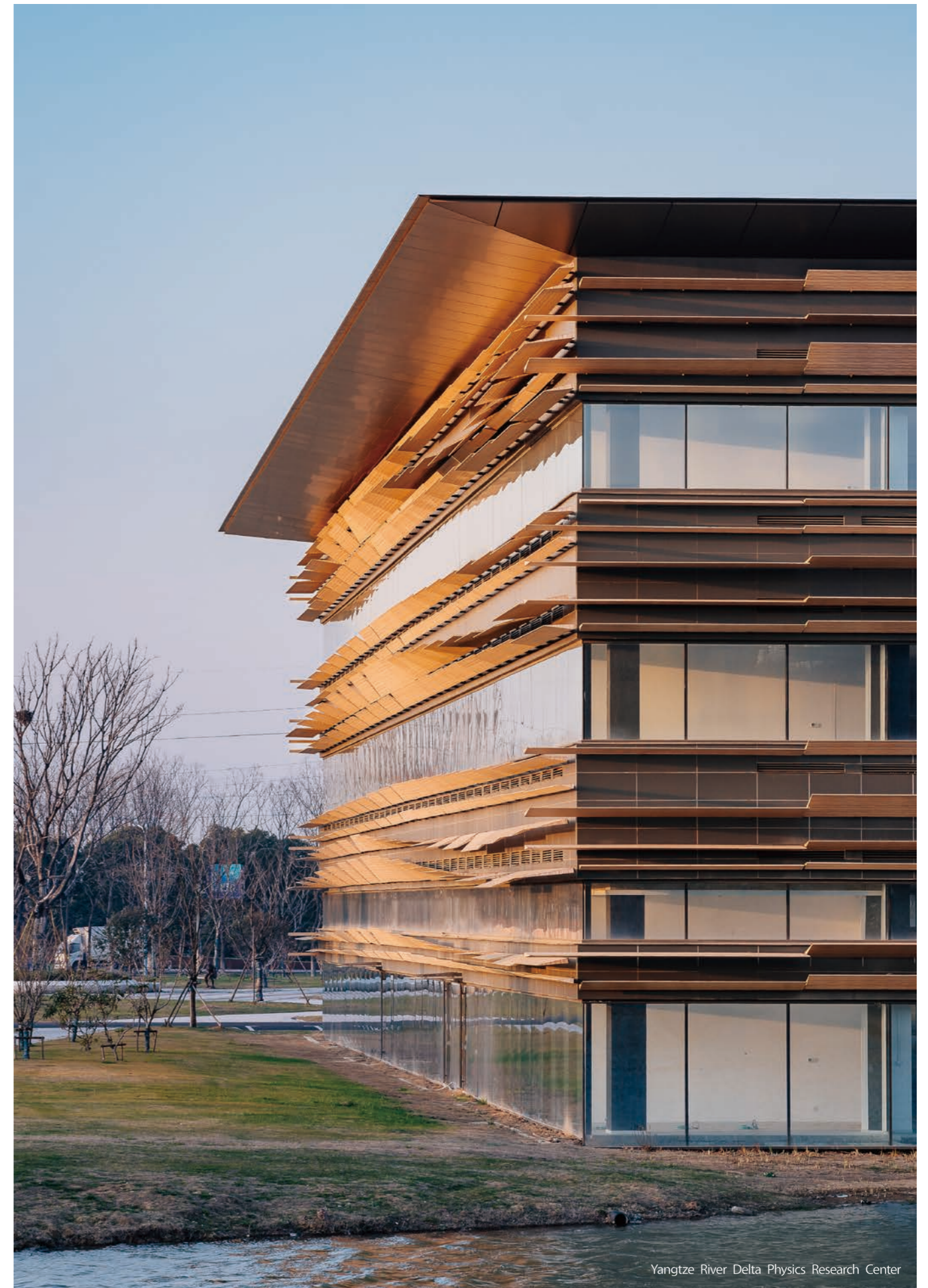
双翼型叶片截面图



CUSTOMIZED SUN-CONTROL

Customized sun louver systems are tailor-made solutions designed specifically for client needs. Leveraging the core competencies in solution design, system integration, and custom fabrication to thoroughly analyze and address client requirements. Building upon this foundation, we provide every client with professional design services and impeccable sun louvers products.

- ◆ Customizable exterior profiles: constant thickness, variable cross section, fusiform, and other configurations
- ◆ Custom dimensional specifications available: lengths up to 12m, widths reaching 1m or beyond
- ◆ Customizable surface effects: wood grain, copper-look, special textured finishes, etc.
- ◆ Customizable installation systems: fixed and adjustable (automated, timed, and manual)
- ◆ Professional structural design ensures optimal sun louver system longevity
- ◆ Versatile customization capabilities fully realize clients' imaginative visions







SHUTTERS SUN-CONTROL

In traditional building exteriors, louvered windows have extensive applications providing both solar shading and maintaining interior privacy. In today's energy-conscious era, architects are creatively reinventing louvered windows systems—this traditional element now optimizes indoor comfort while giving buildings distinctive visual identities. Slide-window sunshade systems represent the contemporary evolution of this traditional architectural element.

- ◆ Extruded aluminum alloy frames (anodized or PVDF fluorocarbon coated)
- ◆ Multiple panel options available: perforated metal, fabric, aluminum louvers, solid wood louvers, etc.
- ◆ Louver systems available in fixed or adjustable configurations
- ◆ Slide-window sunshade systems offer manual or motorized operation options
- ◆ Multiple operation modes available: sliding, folding, rotating, etc.



CONTROL SYSTEM

Building envelope construction, mechanical systems, renewable energy integration, and behavioral science form the four fundamental pathways to architectural energy efficiency. Architectural Sun Louver systems serve as a critical technical solution for building envelope energy efficiency. Architectural sun louvers dynamically regulate sunlight transmission through windows. During summer, sun louvers block intense solar radiation from entering the building interior, while in winter - due to lower solar angles - they permit beneficial thermal gain. By strategically harnessing solar energy, we can significantly reduce HVAC energy consumption.

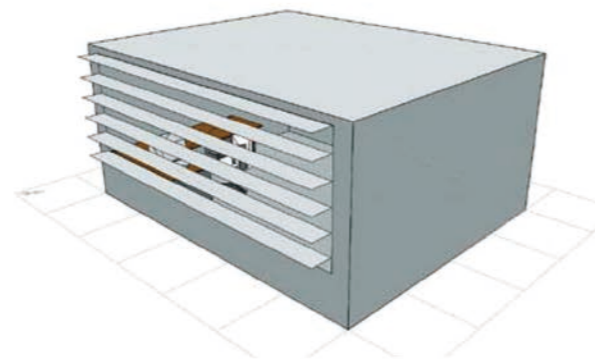
Solar light and heat constitute the fundamental energy source for Earth's life systems, continuously influencing human physiological and psychological states. Within the sun's intense optical and electromagnetic radiation, certain wavelengths prove beneficial while others may cause harm. To create healthier, more comfortable living and working environments, we must actively control and modulate incoming light and heat.

Light Control

- ◆ Compared to artificial lighting, natural daylight is healthier and more comfortable
- ◆ The ideal illuminance for office environments ranges from 500 to 1,500 Lux
- ◆ Through solar modulation, comfortable indoor lighting environments are created Thermal Regulation

Thermal Regulation

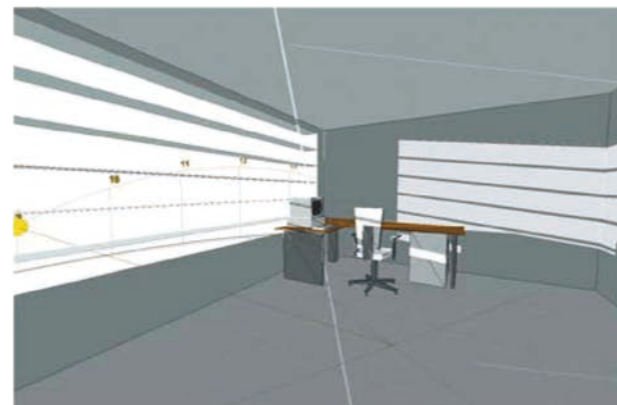
- ◆ Thermal regulation in buildings is more critical than heating provision
- ◆ Minimize direct solar ingress to reduce interior heat accumulation
- ◆ Reduce HVAC operation intensity to minimize greenhouse gas emissions



室外图



室内图 4月1日正午12点



室内图 12月1日上午9点

The sunshade Control system utilizes fieldbus technology, characterized by standardization and modularity. In addition to standard control modules, we offer various expansions for clients' specialized requirements, providing dedicated interfaces for diverse building intelligent systems to enable integrated management of sun louver systems with smart building infrastructure.

The sun louver system's control software simulates solar patterns based on season, time, geographic location, and building orientation to precisely calculate shading performance. By adjusting the system's opening degree and angles, optimal shading performance and minimal energy consumption are achieved. Furthermore, when integrated with intelligent lighting control systems, it automatically regulates the amount of natural light entering the interior, further enhancing indoor environmental comfort and reducing building energy consumption.



- ◆ Basic Control System: This is a simple on/off control system that adjusts the angle and position of sun louvers via wired switches or wireless remotes to achieve optimal shading performance
- ◆ Enhanced Control System: Building upon the basic control system, this solution enables automated shading adjustment through either pre-set annual control parameters or feedback from light, wind speed, and temperature sensor
- ◆ Intelligent Control System: Through computer programming and integration with fire safety systems, building automation systems (including HVAC, lighting, and power distribution equipment), this solution achieves high-precision intelligent control of sun louver systems.

MATERIAL TECHNOLOGY

Dedicated to the R&D and advancement of metal panel processing technologies. Aluminum alloys with varying compositions exhibit distinct characteristics in rigidity, toughness, morphological stability, and weather resistance, making them suitable for different products and applications. Today, we have expanded beyond traditional aluminum alloys and galvanized steel to include stainless steel, copper, titanium, and other advanced materials, with corresponding developments in material forming and composite technologies. Providing designers with more and superior options, significantly expanding the application scope of metal materials in architectural decoration.



铝合金



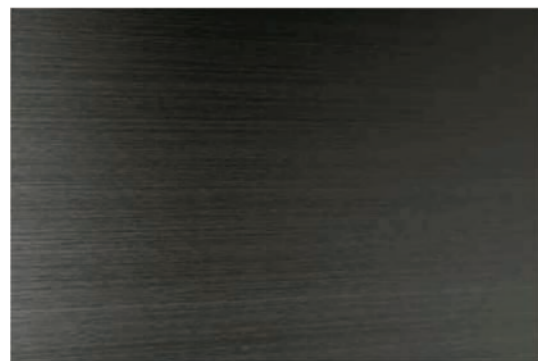
镀锌钢



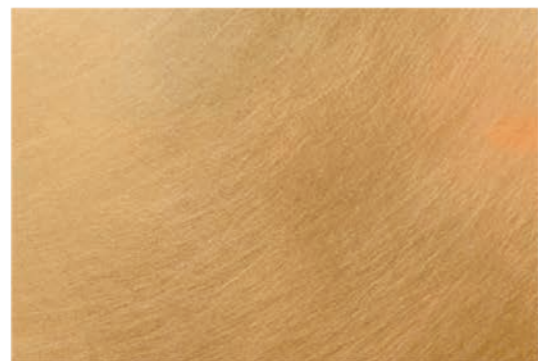
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铜



钛



铜板做旧



CUSTOMER SERVICE

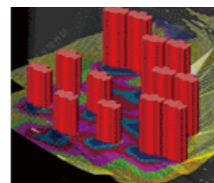
Centered on a supply model of "customization" and "zero waste," we closely collaborate with clients at every stage—from project design and construction to daily maintenance—partnering throughout the entire process, delivering professional, thoughtful pre-sales and after-sales services to achieve complete customer satisfaction. Our professional team, robust production capabilities, and efficient supply chain system provide strong, reliable support for client services.



AutoCAD
Scheme Design



Rhino
3D Modeling



SunFast
Sunlight Analysis



ANSYS
Finite Element Simulation



- ◆ Product Information: Manufacturing processes, specifications, and test reports
- ◆ Engineering Consultation: Needs analysis, material quantity estimation, and budgeting
- ◆ Design Solutions: Alternative proposals, design refinement, and modifications
- ◆ Installation Guidance: Workforce training and on-site guidance
- ◆ Maintenance Services: Maintenance operation manuals and training guidance



雍科 金属外墙与建筑遮阳



萨克森 金属吊顶与内装系统

领先的建筑产品全面解决方案供应商

AN EXPERT OF CUSTOM-MADE
ARCHITECTURAL PRODUCTS

以客户的需求为出发点，持续为其提供具有匠心特色的核心产品。
通过“获得有价值的市场占有率”来实现“有价值的成长”，
通过“有价值的人才培养”来实现“高效率的经营”。
我们要让的每位员工都具备完美、创新和可视化的意识，
立志在中国建筑装饰市场上，
成为业界一流、有信誉、有魅力的企业品牌。

We understand your needs, because we have the experience.
We have a unique solution, because we are very professional.
Our services are more thoughtful, because we are sincere.
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雍科 金属外墙与建筑遮阳

SACHSEN

萨克森 金属吊顶与内装系统

萨克森工业(嘉兴)有限公司

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