

# SACHSEN

萨克森 金属吊顶与内装系统

METAL SPACE  
AND  
INTELLIGENT MANUFACTURING

**SACHSEN**

萨克森 金属吊顶与内装系统

SACHSEN  
AN EXPERT OF  
CUSTOM-MADE  
ARCHITECTURAL  
PRODUCTS

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**萨克森工业（嘉兴）有限公司**

**SACHSEN INDUSTRY (JIA XING) CO., LTD**

# METAL CEILING AND INTERIOR SYSTEM

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 ceilings, interior systems for Sachsen brand and metal facade, architectural sunshade for UMT brand. With extensive experience in major projects and strong product development capabilities accumulated within the sector, Sachsen metal ceilings and interior systems lead 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.

Sachsen metal ceilings and interior systems 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.





Beijing Daxing International Airport

# PRODUCT PHILOSOPHY

## **Green Building Materials**

Low-carbon, green, and eco-friendly represent a core philosophy. Sachsen implements green and eco-friendly manufacturing processes to maximize energy and resource efficiency. The products are environmentally neutral during application, featuring reusable materials that make them ideal sustainable decorative solutions. Sachsen products utilize high-quality aluminum alloy materials and advanced coating technologies to ensure superior indoor/outdoor environmental quality, minimizing VOC and Formaldehyde emissions to the greatest extent. They represent a recyclable green building material product.

## **Prefabricated Building Materials**

Sachsen building products embody the advanced principles of prefabricated building. Our metal ceilings, interior 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, Sachsen 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 Intelligent Manufacturing**

Comfort and environment protection have become two critical benchmarks for modern quality of life. Sachsen's diffused decorative functional material leverages its high diffusion rate and refined surface texture to deliver flexible spatial experiences for large-scale public projects. It significantly enhances ambient lighting quality while reducing energy consumption—a true "smart material" for the new era.

## **Professional Customization**

For years, Sachsen has adhered to the principles of "project-oriented R&D" and "specialized customization," striving for innovative R&D, precision manufacturing, and customer service to deliver unique solutions and robust technical support for personalized client needs.



Zhongguancun Conference Center

# PRODUCT ADVANTAGE

## **Energy Efficiency**

Sachsen's energy-efficient diffuse reflection functional coating achieves up to 95% diffusion rate, evenly distributing ambient light throughout interior spaces. When applied in airport projects, it delivers substantial energy savings. For instance, Beijing Daxing International Airport's entire terminal utilizes just over 5,000 light fixtures—a 70% reduction compared to the 20,000+ fixtures typically deployed in similar-sized airports. It represents a genuinely energy-efficient material.

## **Environmental Sustainability**

Sachsen products have been awarded the title of "China Green Eco-Friendly Building Material Products" by the National High-Tech Building Materials Industrialization Committee.

## **Durability**

Under normal usage and proper maintenance, Sachsen products maintain excellent surface gloss, color retention, and structural integrity for 25 years, with no visible deformation.

## **Fire Resistance**

Sachsen products—metal ceiling systems—have been certified by the National Center for Quality Supervision and Testing of Fireproof Building Materials, meeting the Class A standard as stipulated in GB 20286-2006.

## **Public Building Adaptability**

Architectural decorative materials—particularly for large-scale public buildings—should exhibit corrosion resistance, durability, fire safety, and easy cleaning properties, which conventional building materials often fail to meet. Metal ceiling aluminum panels offer exceptional resistance to temperature, humidity, and exposure to acids, alkalis, and salts. They also demonstrate strong corrosion resistance against oils and chemicals, while providing anti-static and fireproof properties—making them an ideal architectural decorative material.

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01

TRANSPORTATION  
ENVIRONMENT

BEIJING DAXING INTERNATIONAL AIRPORT  
CHENGDU TIANFU INTERNATIONAL AIRPORT  
WUHAN TIANHE INTERNATIONAL AIRPORT  
BEIJING SUBWAY LINE 8 ( PHASE III)



安全  
检查  
Security  
Check  
→

成都天府国际机场值机大厅

# BEIJING DAXING INTERNATIONAL AIRPORT

## BEIJING DAXING INTERNATIONAL AIRPORT

Beijing Daxing International Airport's interior features fluid double-curved geometries, with its 42,000-ton roof supported by eight huge C-shaped columns. Sachsen supplied 150,000 square meters of diffuse-reflection honeycomb panels for this landmark project. The terminal's natural lighting system comprises one central skylight, six linear skylights, eight bubble skylights, and daylighting strips running through the mid-section of the concourse.

Sachsen's diffuse-reflection nano pre-coated panels incorporate nano-materials within their coating layers:

【High Diffuse Reflectance】 With 95% diffuse reflection, the light is naturally soft, while the surface exhibits enhanced smoothness, refined texture, improved uniformity, higher color rendering index (CRI), and reduced color deviation.

【Simple Fabrication】 Utilizing established coil coating technology, both the metal coils and honeycomb panels feature straightforward manufacturing processes, high production efficiency, and guaranteed supply reliability.

【Strong Adhesion】 Excellent weather resistance and strong adhesion ensure long-term performance without delamination or seam separation.

【Easy Cleaning】 The diffuse reflection coating requires minimal maintenance and maintains uniform surface illumination even in low light, whereas conventional coatings often produce noticeable light spots.

Surface: High Diffuse Reflection Coil Coating

Location: Beijing China

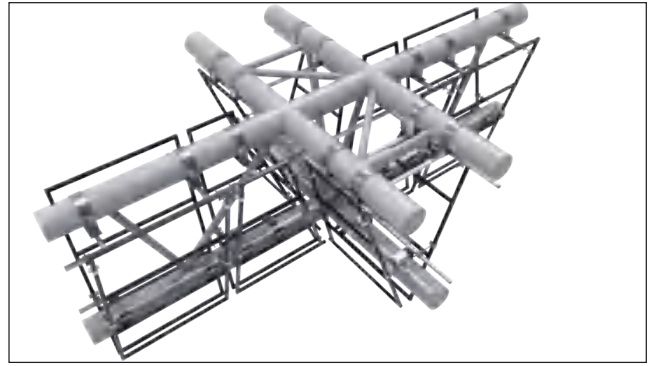
Year: 2019

Architect/Planner: Zaha Hadid Architects+BIAD



Applied Materials: Aluminum Honeycomb Panels

Installation Methods: Suspended Bracket Bolt Connection System

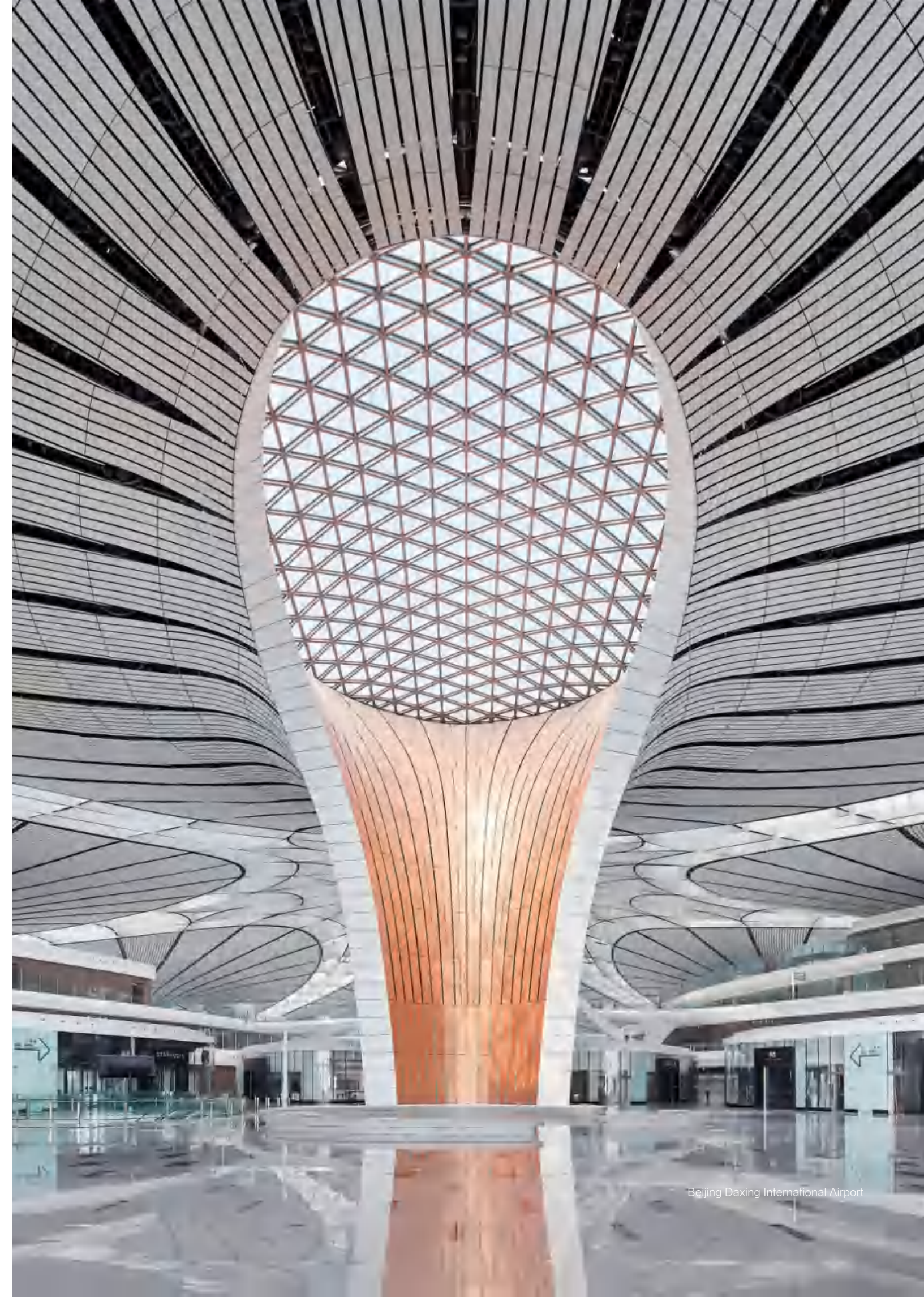




Beijing Daxing International Airport



Beijing Daxing International Airport



Beijing Daxing International Airport

# CHENGDU TIANFU INTERNATIONAL AIRPORT

At Chengdu Tianfu International Airport, the terminal's interior design incorporates bamboo-inspired elements, reflecting Sichuan's natural aesthetic philosophy. The terminal's grand ceiling design draws inspiration from bamboo leaves and feathers, with its styling elements derived from Sichuan's native bamboo and the iconic Sunbird motif. Through modular arrangements, a grand ceiling system is formed. The design employs a double-layered roof system integrated with Sachsen's diffuse-reflection honeycomb ceiling panel system, creating a set of off-center symmetrical diamonds where nature and human ingenuity harmoniously converge.

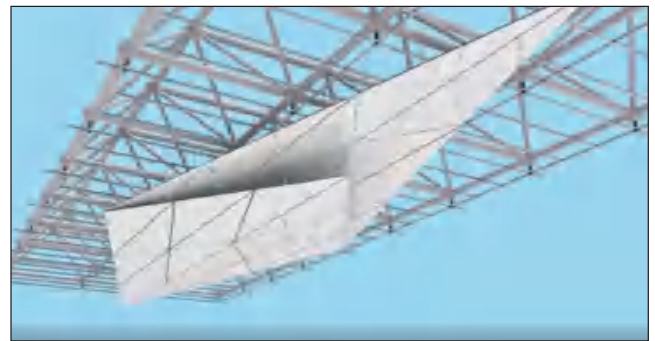
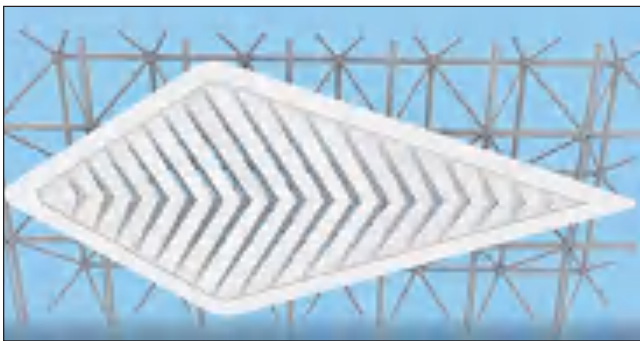
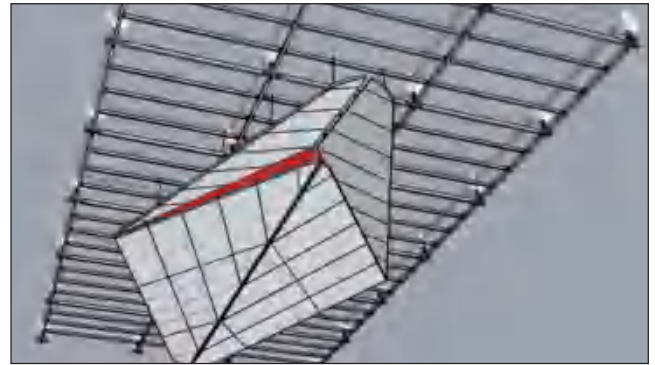
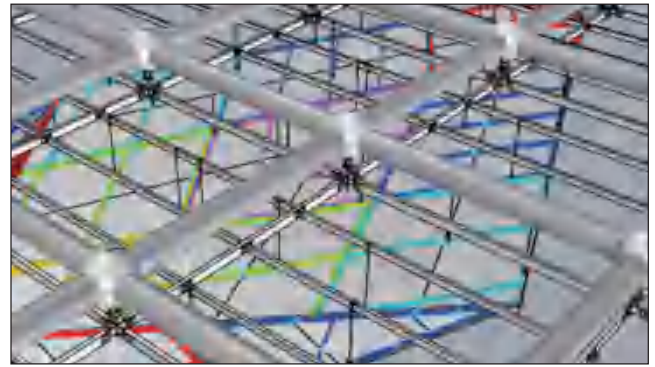
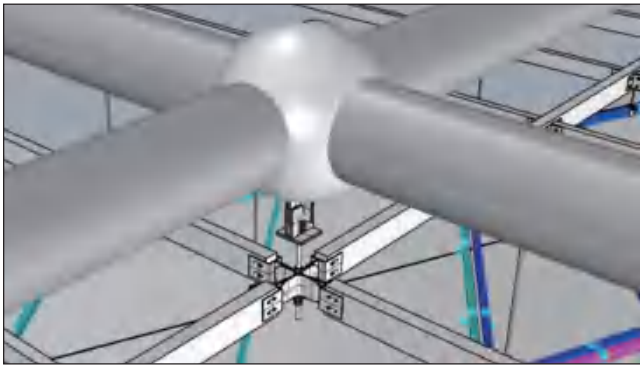
Surface: High Diffuse Reflection Coil Coating

Location: Chengdu Sichuan

Year: 2021

Architect/Planner: CSCEC





Applied Materials:

Aluminum Honeycomb Panels

Installation Methods:

Suspended Bracket Bolt Connection System

Non-standard irregular-shaped panel systems meet contemporary individualized architectural decorative design needs. Utilizing specialized processing equipment and techniques, Sachsen produces decorative panels with diverse shapes, surface treatments, and rich color variations - a hallmark of our product offerings. Leveraging expansive production facilities, advanced equipment, and skilled technicians, we have supplied numerous landmark projects, accumulating extensive expertise in product process design, panel precision fabrication, on-site construction, and installation guidance. Product form processing includes: single/double-curved panels, corner panels, custom cassette panels, trapezoidal, triangular, diamond-shaped, and irregular geometries, among others. Surface treatments include: glossy, matte, brushed, embossed, mirrored, relief-patterned, galvanized, anodized, fluorocarbon spray-coated, and numerous other finishing options. Color options include: custom RAL standard colors, metallic finishes, wood grains, stone textures, patterned screen printing, and more—fully catering to personalized demands. Simultaneously, we develop specialized installation systems tailored to different panel designs, delivering comprehensive product services.

**System Components:** Panels, C-shaped steel furring channels or L-shaped angle steel framing, and installation accessories.

**System Specifications:** Custom-cut fabrication

**Surface Treatments:** Custom coatings, fluorocarbon roller application,

**Installation instruction:** Individually designed to match panel configurations, delivering comprehensive solutions



Changchun Longjia International Airport



# WUHAN TIANHE INTERNATIONAL AIRPORT

Wuhan Tianhe International Airport's T3 terminal, with its phoenix-inspired silhouette soaring skyward, embodies the poetic concept of "A Phoenix Dancing in the Heavens." The T3 terminal features three levels, with its interior ceiling comprising double-curved geometries assembled from varied-size honeycomb panels, while the central skylight utilizes triangular perforated aluminum solid panels.

Aluminum or steel face/back panels are thermally bonded with honeycomb core material in a pressurized process. The honeycomb core structure enhances panel strength, flatness, and dimensional stability—enabling larger formats with minimal deflection or deformation for long-term durability. Simultaneously, this product category is suitable for both interior and exterior wall cladding, as well as roofing applications.

## System Components:

Honeycomb composite metal ceiling panels with extruded furring channels

## System Specifications:

Width  $\leq 1500\text{mm}$ , Length  $\leq 4000\text{mm}$ , Thickness options: 9/12/15/25mm

## Surface Treatments:

Polyester baking paint, fluorocarbon baking paint, real wood veneer

Surface: Coil Coating

Location: Wuhan Hubei

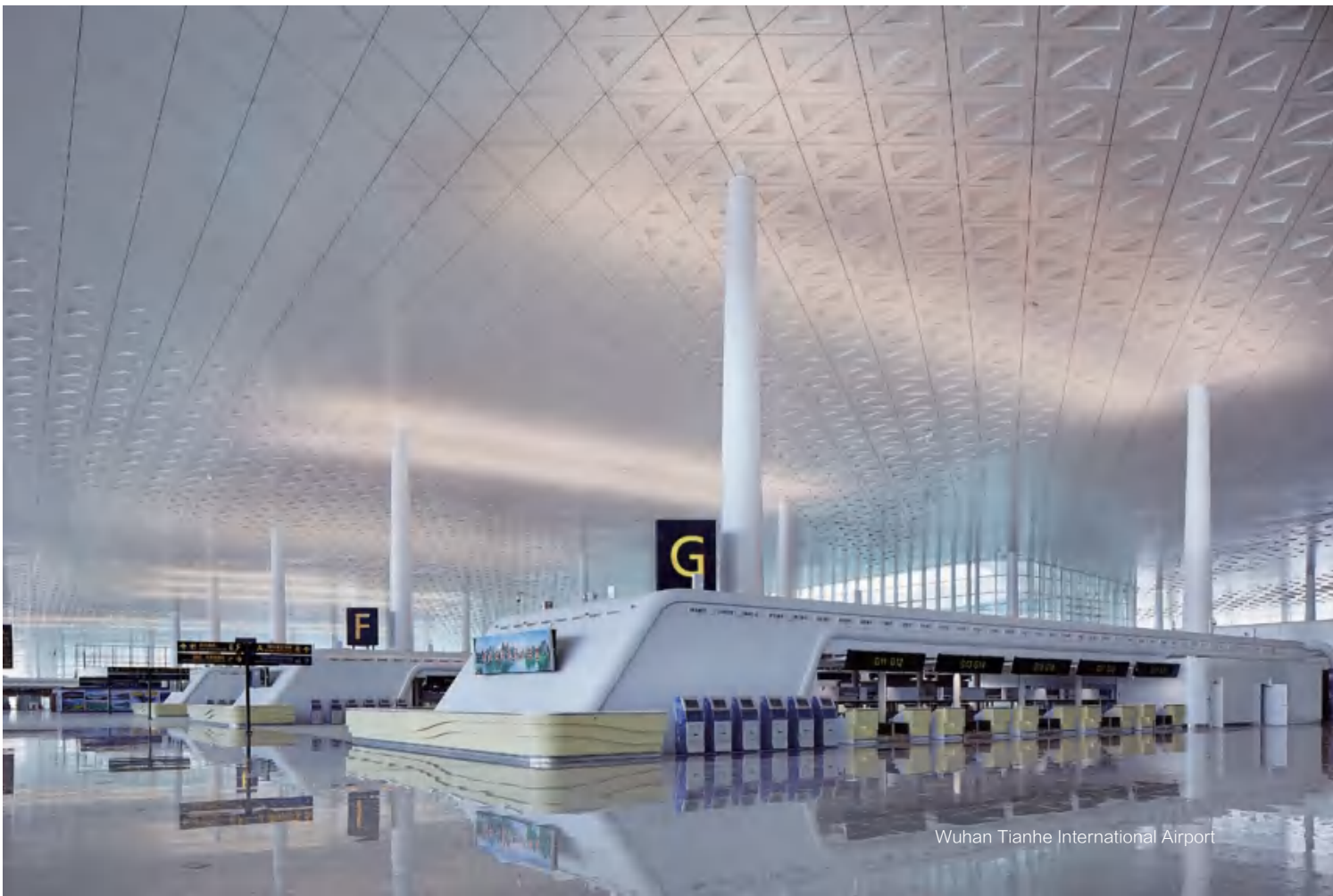
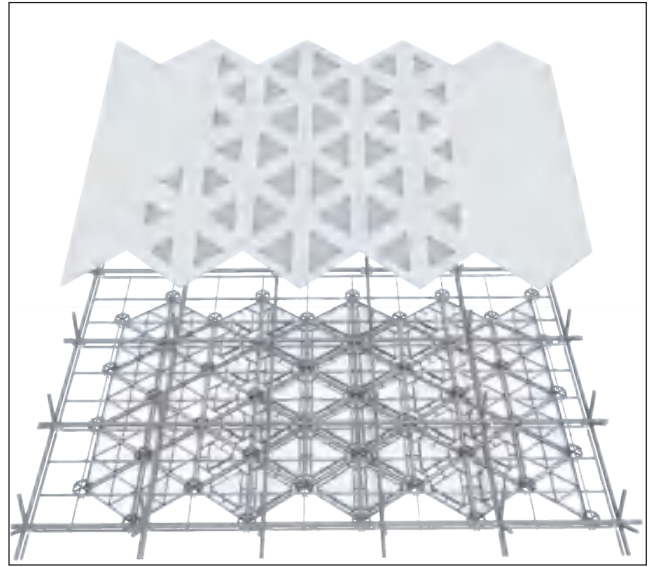
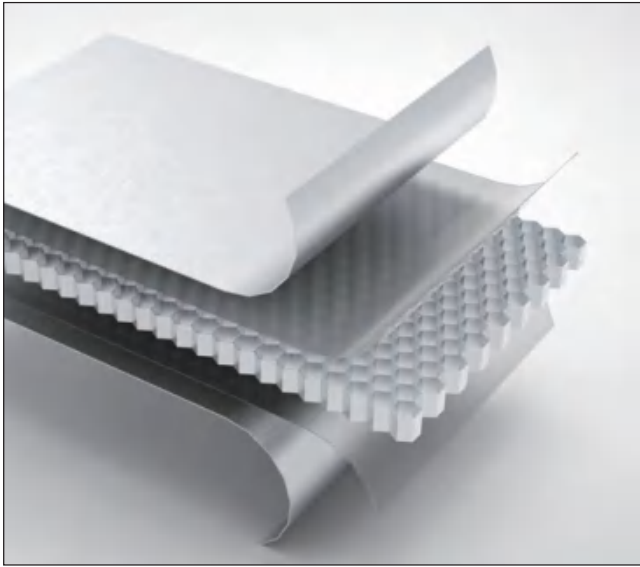
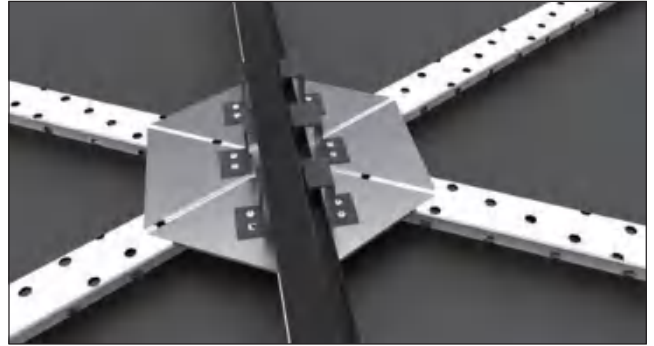
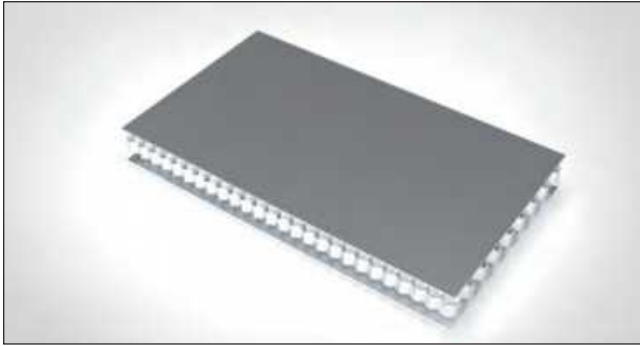
Year: 2017

Architect / Planner: CSADI



Applied Materials: Aluminum Honeycomb Panels

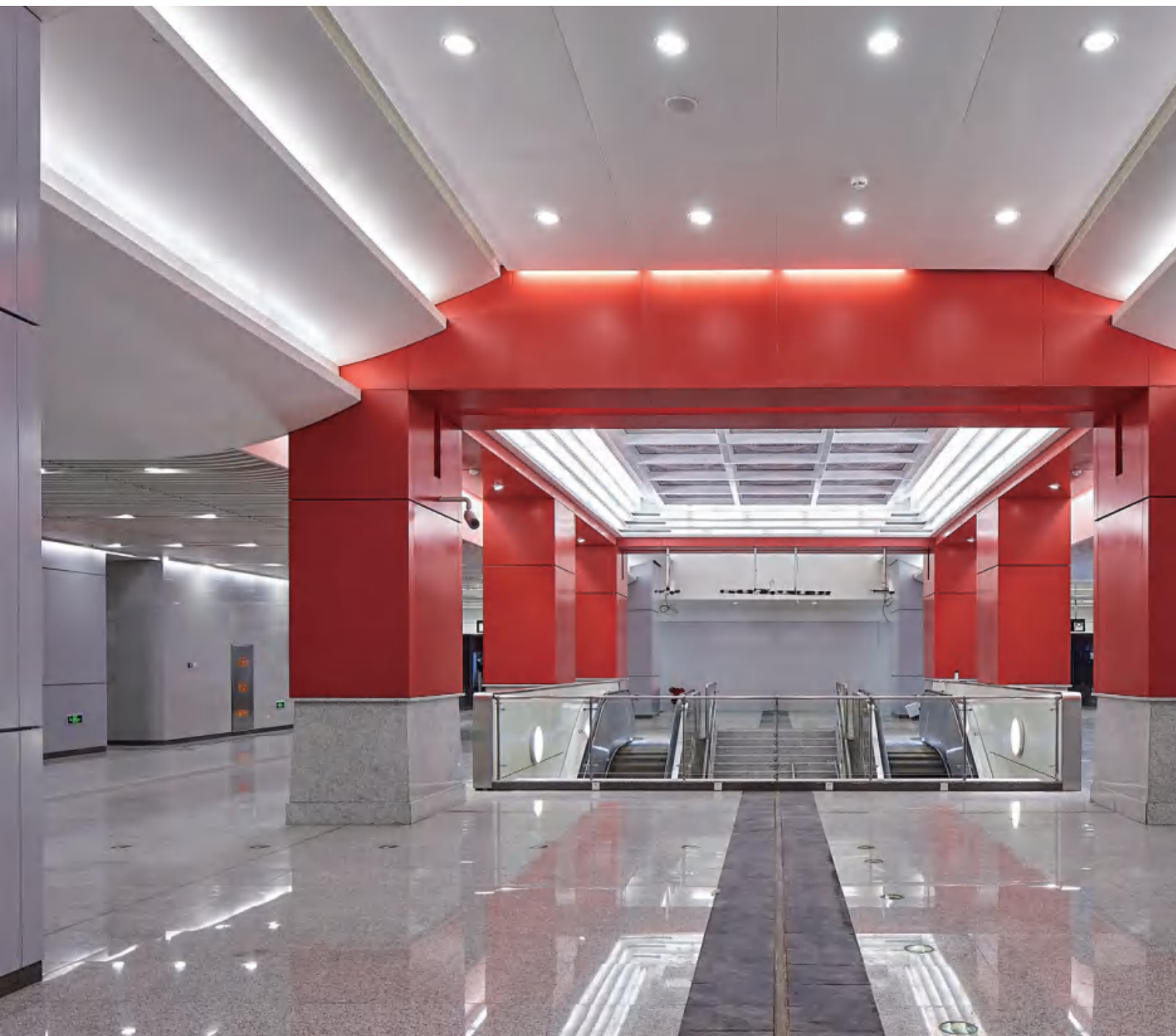
Installation Methods: Suspended Bracket Bolt Connection System



# BEIJING SUBWAY LINE 8 (PHASE III)

Application Materials: Aluminum Square Tubes, Solid Panels

Installation Method: Suspension System



Surface: Pre-coil Coating

Location: Beijing China

Year: 2020

Architect / Planner: Beijing Rail Transit Construction Management Co., Ltdd



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02

CONFERENCE  
ADMINISTRATION  
ENVIRONMENT

CHENGDU TIANFU INTERNATIONAL CONFERENCE CENTER

HP CUSTOMER EXPERIENCE CENTER

ZHONGGUANCUN CONFERENCE CENTER

COFCO NUTRITION AND HEALTH RESEARCH INSTITUTE



# CHENGDU TIANFU INTERNATIONAL CONFERENCE CENTER

Surface: PVDF Coating

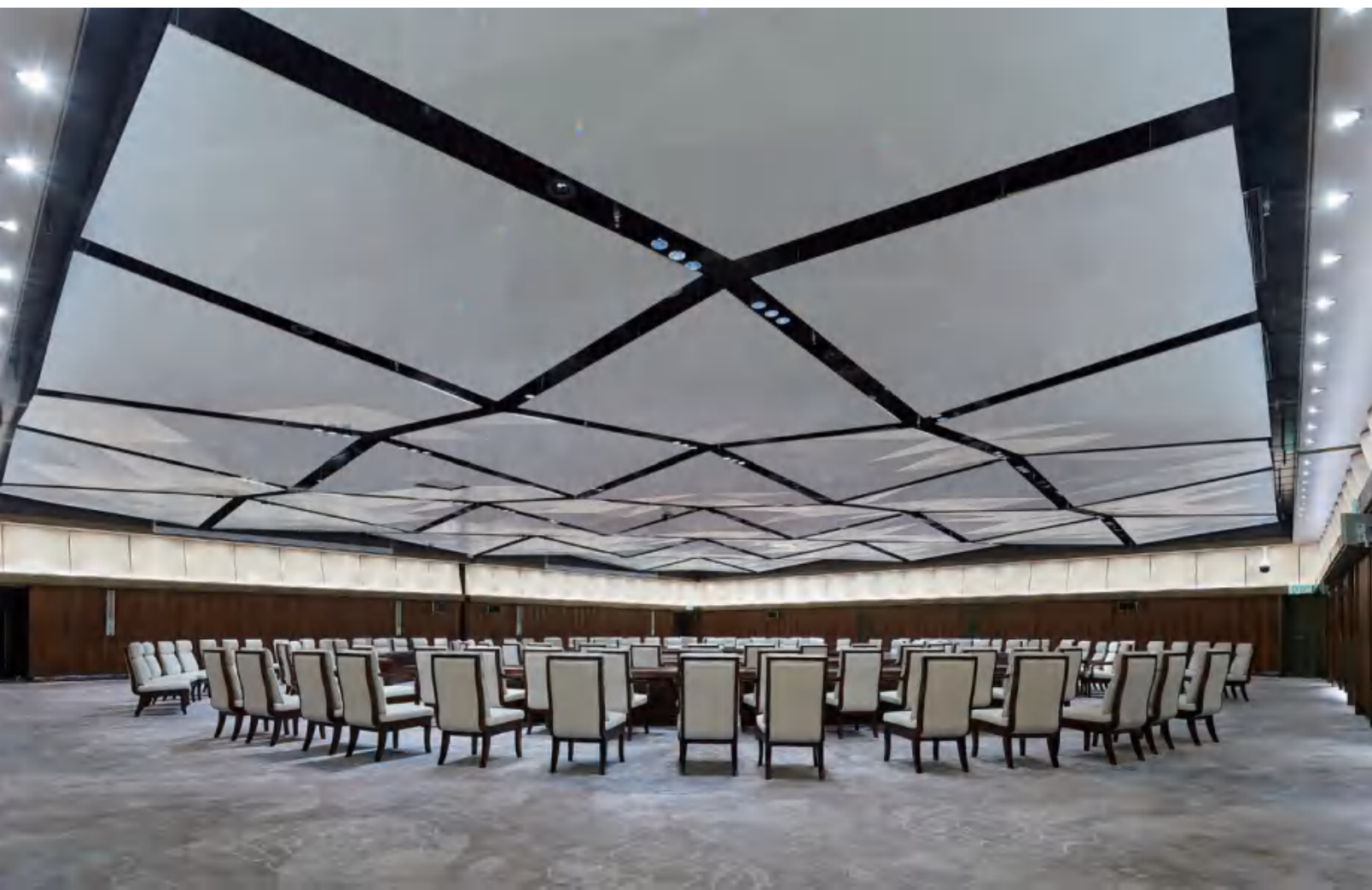
Location: Chengdu Sichuan

Year: 2021

Architect / Planner: Tanghua Architect & Associates

Application Materials: Aluminum Square Tubes, Perforated Acoustic Panels

Installation Method: Suspended Bracket Bolt Connection System









Chengdu Tianfu International Conference Center

# HP CUSTOMER EXPERIENCE CENTER

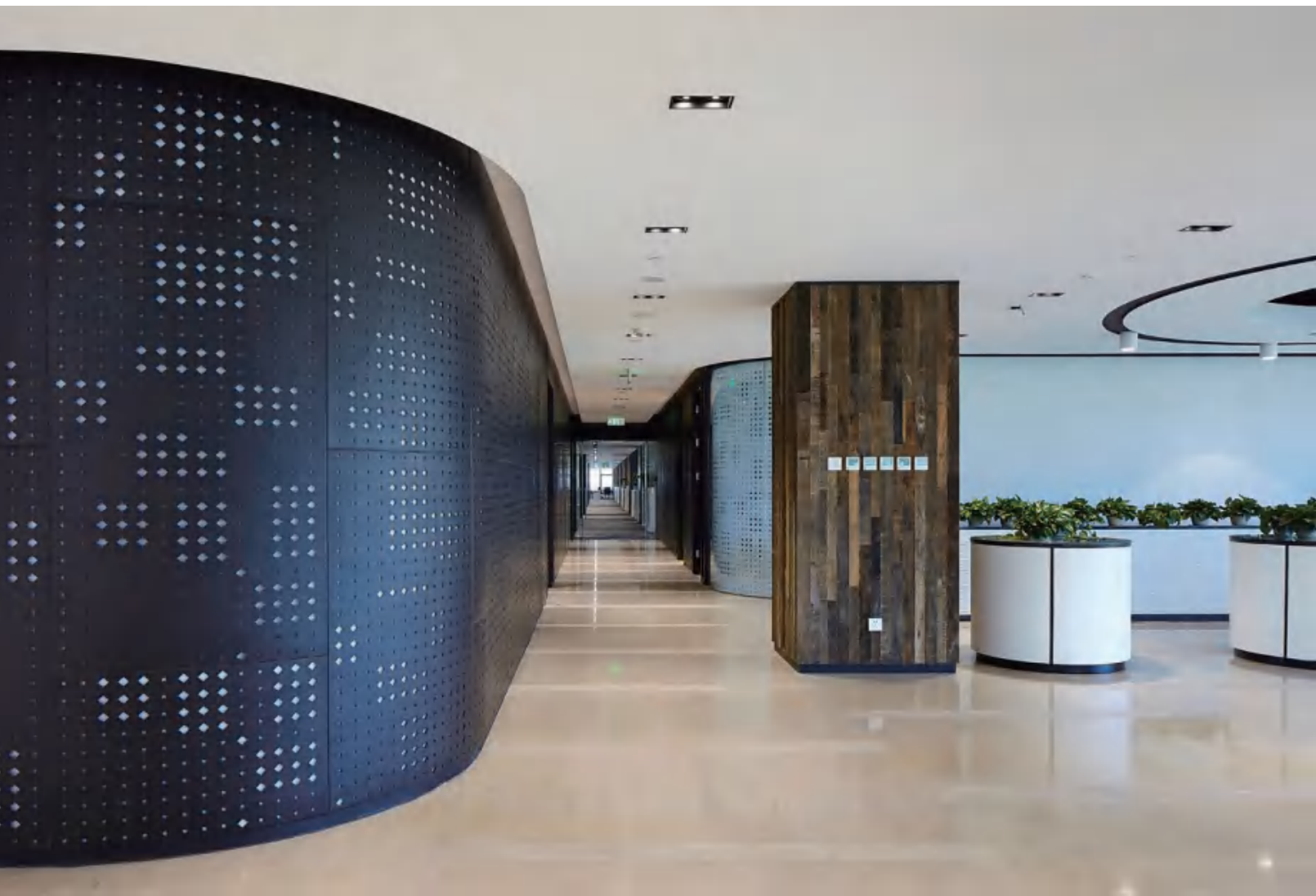
Surface: PVDF Coating

Location: Beijing China

Year: 2016

Application Materials: Aluminum Square Tubes, Perforated Acoustic Panels

Installation Method: Suspended Bracket Bolt Connection System





# ZHONGGUANCUN CONFERENCE CENTER

Surface: Anodized

Location: Beijing China

Year: 2019

Architect/Planner: BIAD

Application Materials:

Aluminum Honeycomb Panels

Installation Method:

3AS Riveted Connection System



Anodized panels exhibit superior metallic aesthetics—premium and aesthetic. Standard-thickness anodized aluminum panels maintain uniform, fade-resistant coloration for long-term indoor use. Thick-film anodized panels are suitable for outdoor applications, offering excellent weather resistance and UV protection while retaining color stability under prolonged sun exposure. Anodized panels are environmentally non-toxic, anti-static (dust-resistant), and easy to clean.

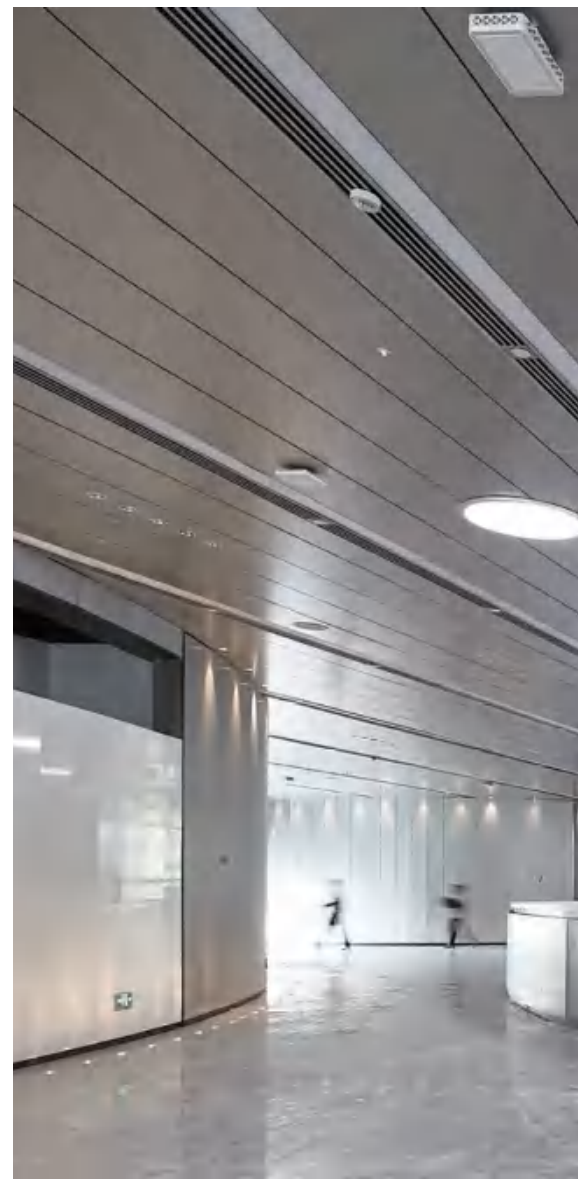
**Excellent workability:** Moderate hardness allows easy bending and forming, eliminating the need for additional surface treatment—reducing production cycles and costs.

**Superior weather resistance:** Standard-thickness anodized aluminum panels maintain color stability indoors, resisting corrosion, oxidation, and rust indefinitely. Thick-film anodized panels are suitable for outdoor use, retaining color stability even under prolonged solar exposure.

**Strong metallic feel:** High surface hardness, reaching gemstone-grade, scratch-resistant, no paint coating, retaining the metal luster of the panel, highlighting a modern metallic texture, and elevating the spatial decor's premium quality.

**High fire resistance:** Free of paint and any chemical substances, non-combustible at 600° C, emits no toxic fumes, and meets fire safety and environmental standards.

**Excellent Stain Resistance:** Fingerprint-resistant, easy to clean, and corrosion-spot-free.





# COFCO NUTRITION AND HEALTH RESEARCH INSTITUTE

Surface: PVDF Coating

Location: Beijing China

Year: 2014



Application Materials: Strip Panel Suspended Ceiling, Solid Panels  
Installation Method: Suspension System



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03

PUBLIC OFFICE  
ENVIRONMENT

CHINA CONSTRUCTION BANK (BEIJING) DATA CENTER

CHINA CENTRAL TELEVISION (CCTV) HEADQUARTERS

CHINA NATIONAL RADIO (CNR)

CHINA NATIONAL NUCLEAR POWER R&D INNOVATION BASE

TIANFU AIRPORT AUXILIARY COMPREHENSIVE OFFICE



# CHINA CONSTRUCTION BANK (BEIJING) DATA CENTER

**System Specifications:** Width options 20 to 70mm, Height options 50 to 200mm

**Processing Length:** Maximum roll-forming length 6000mm standard—custom extended lengths available upon transport feasibility confirmation

**Installation Methods:** U-shaped Bracket Suspension, Top/Bottom Clip Fastening

**Surface Treatments:** Pre-coated (Coil Coating), Electrostatic Powder Coating, PVDF Fluorocarbon Coating

**Panel Type Categories:** Flat Panel

**Thickness Options:** 0.8~1.2 mm

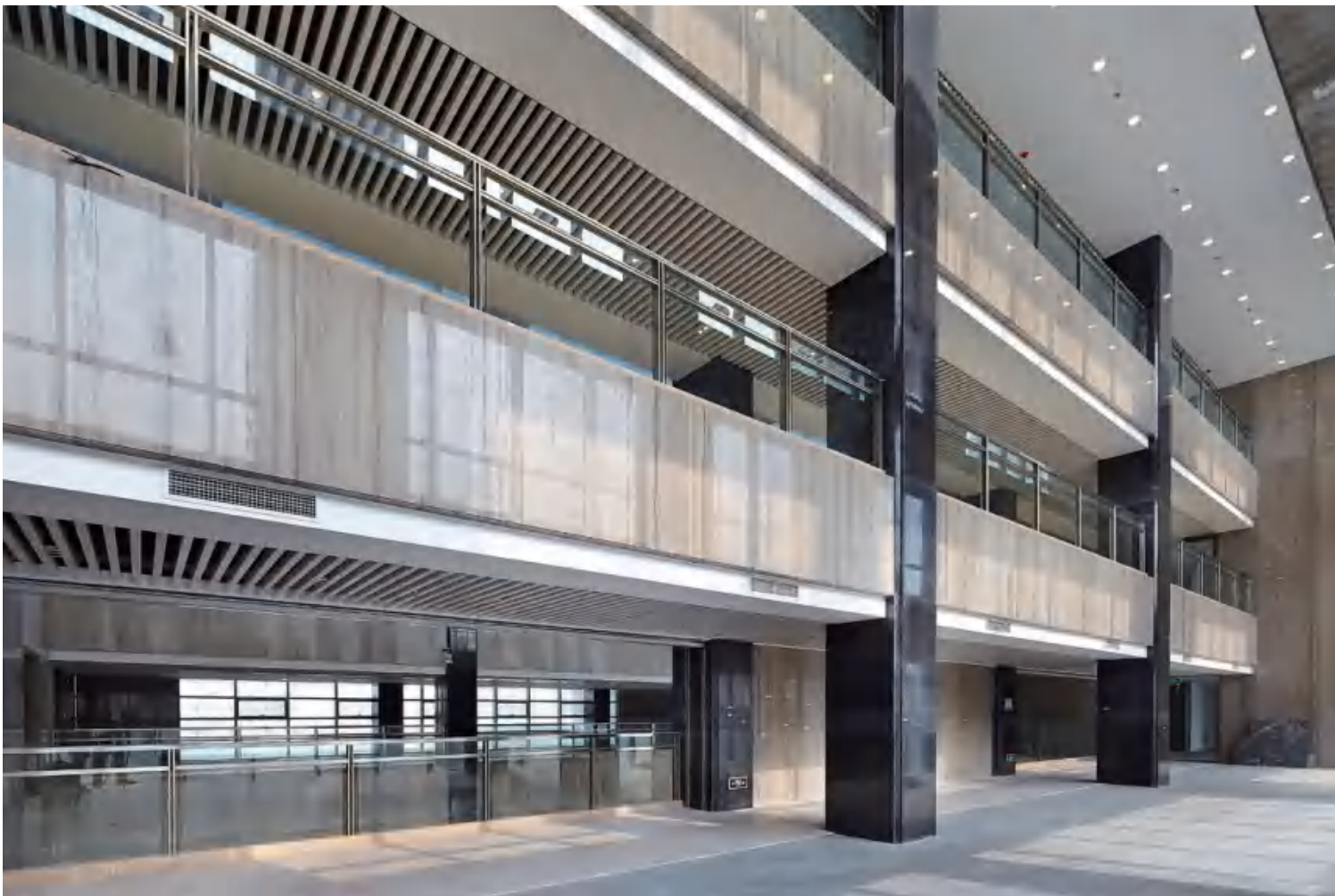
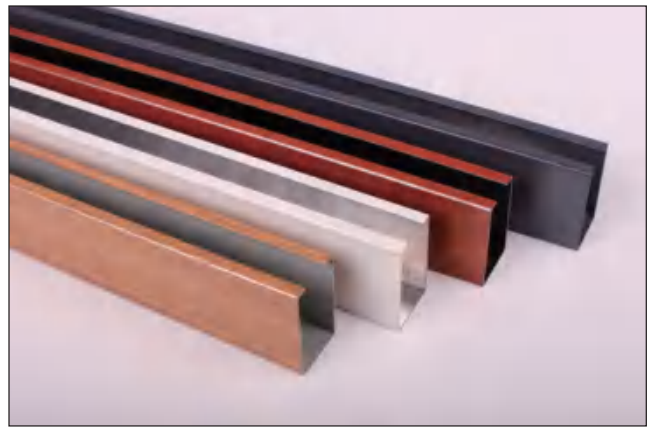
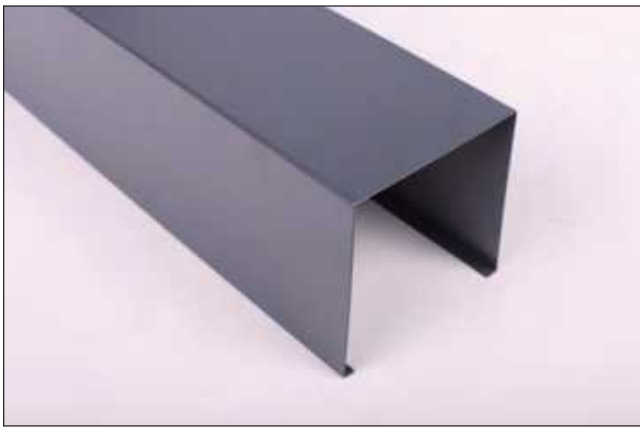
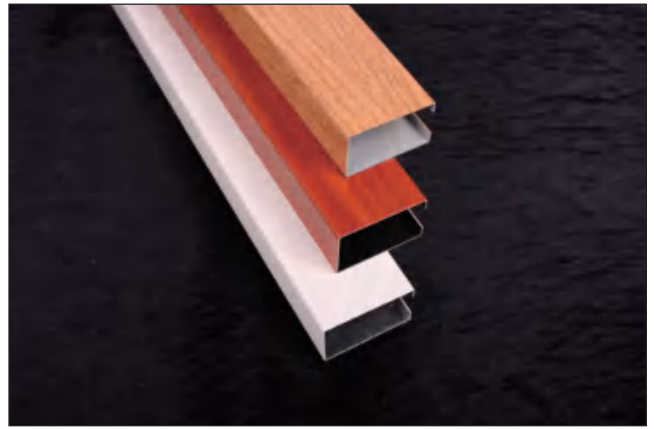
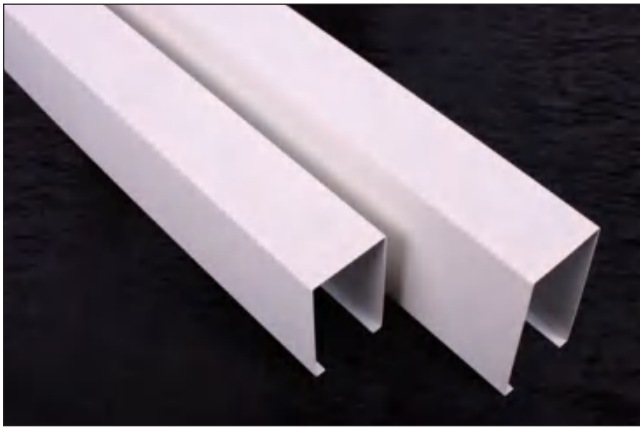
**Panel Spacing:** Adjustable according to design modules

Surface: PVDF Coating

Location: Beijing China

Year: 2015





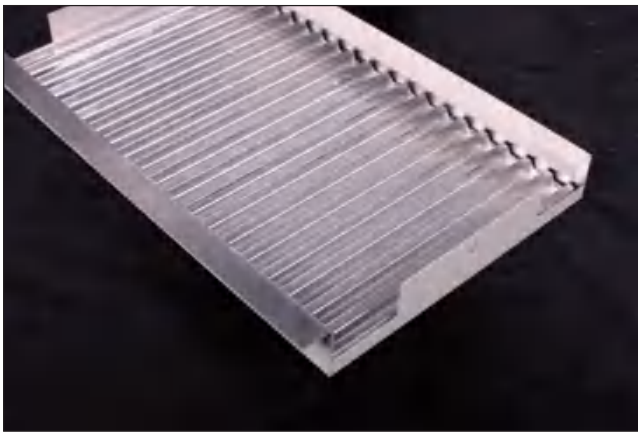
# CHINA CENTRAL TELEVISION (CCTV) HEADQUARTERS

Aluminum or steel face/back panels are thermally laminated with corrugated core material, offering a more economical alternative to honeycomb composite ceilings when large panel segmentation isn't required —while maintaining exceptional resistance to deformation, deflection, and long-term wear.

**System Components:** Corrugated composite metal ceiling panels (single or double-faced) with specialized framing channels

**System Specifications:** Width  $\leq 1200\text{mm}$ , Length  $\leq 4000\text{mm}$ , Panel thickness  $\approx 6\text{mm}$

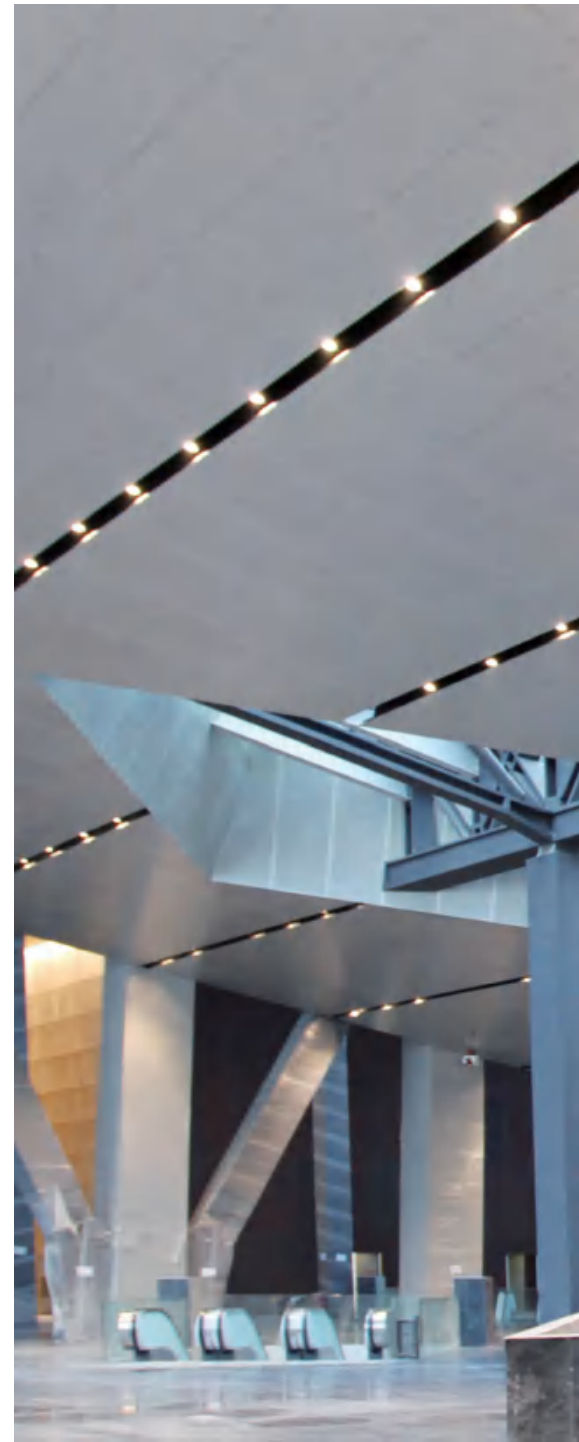
**Surface Treatments:** Polyester baked paint, fluorocarbon baked paint, solid wood veneer



Surface: Anodized

Location: Beijing China

Year: 2010



Application Materials:  
Metal Composite Panels

Installation Method:  
Concealed Suspension System



# China National Radio (CNR)

Surface: Pre-coil Coating

Location: Beijing China

Year: 2017

Application Materials: Perforated Aluminum Panels

Installation Method: 3AS Riveted Connection System





# China National Nuclear Power R&D Innovation Base



Surface: Coil Coating

Location: Beijing China

Year: 2013

Architect/Planner: B+H Architects

Application Materials: Alum Solid Panels

Installation Method: Concealed Suspension System



# Tianfu Airport Auxiliary Comprehensive Office

Surface: Pre-coil Coating

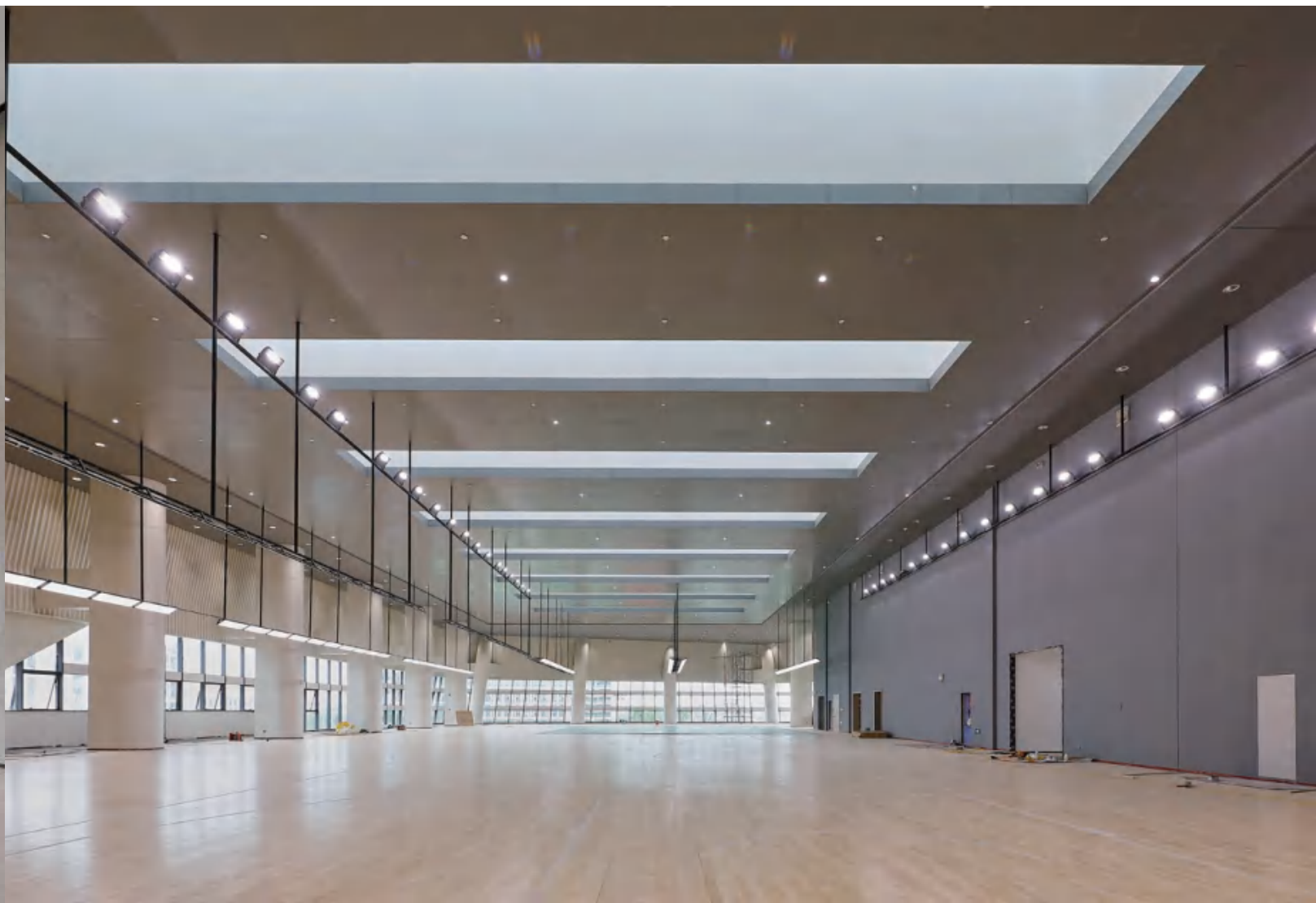
Location: Chengdu Sichuan

Year: 2021

Application Materials: Solid Panels

Method: Concealed Suspension System









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04

MEDICAL  
EDUCATION  
ENVIRONMENT

BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE

BEIJING YOUMAI MEDICAL CLINIC

TANGSHAN MATERNAL AND CHILD HEALTH HOSPITAL



# BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTUR

Surface: Pre-coil Coating

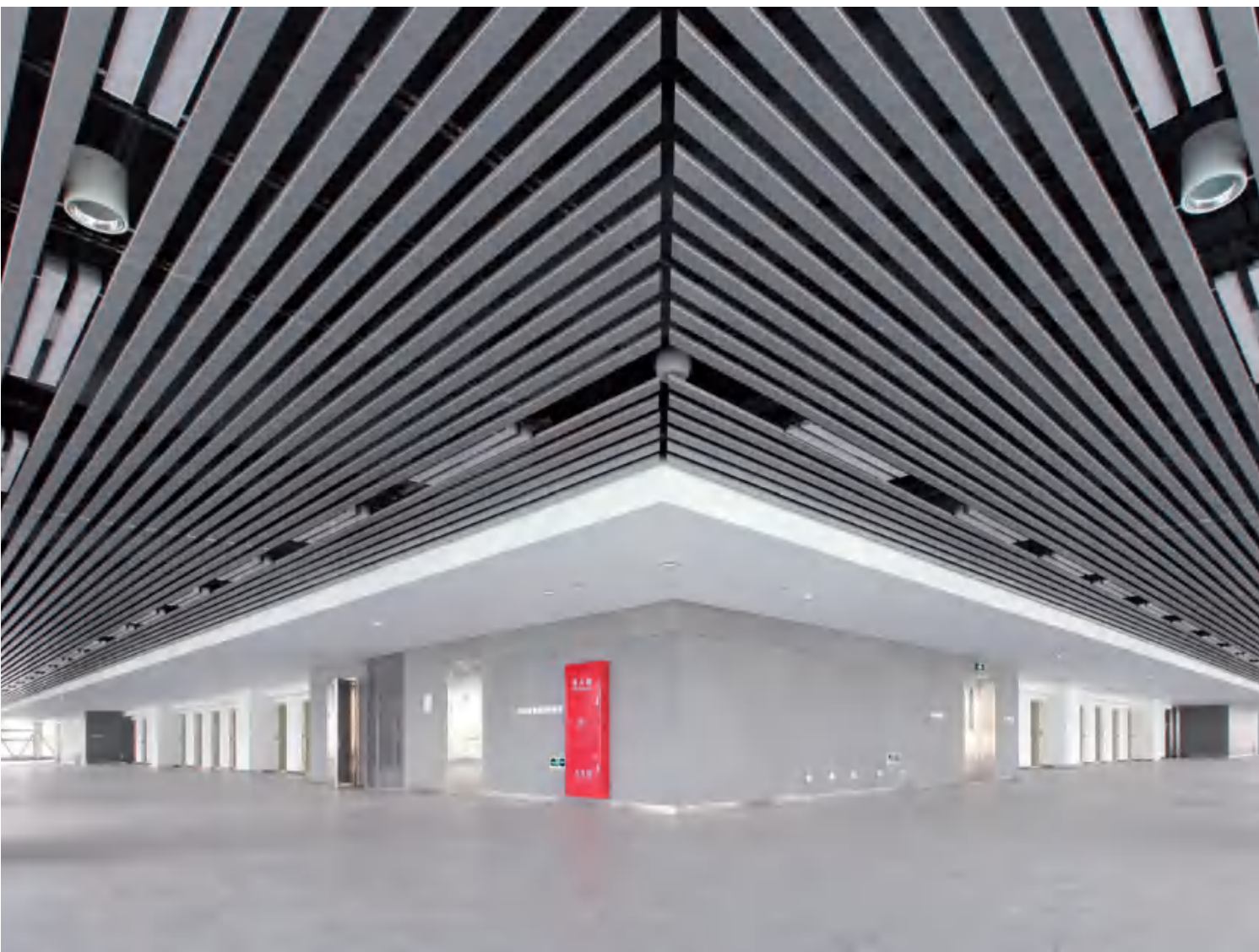
Location: Beijing China

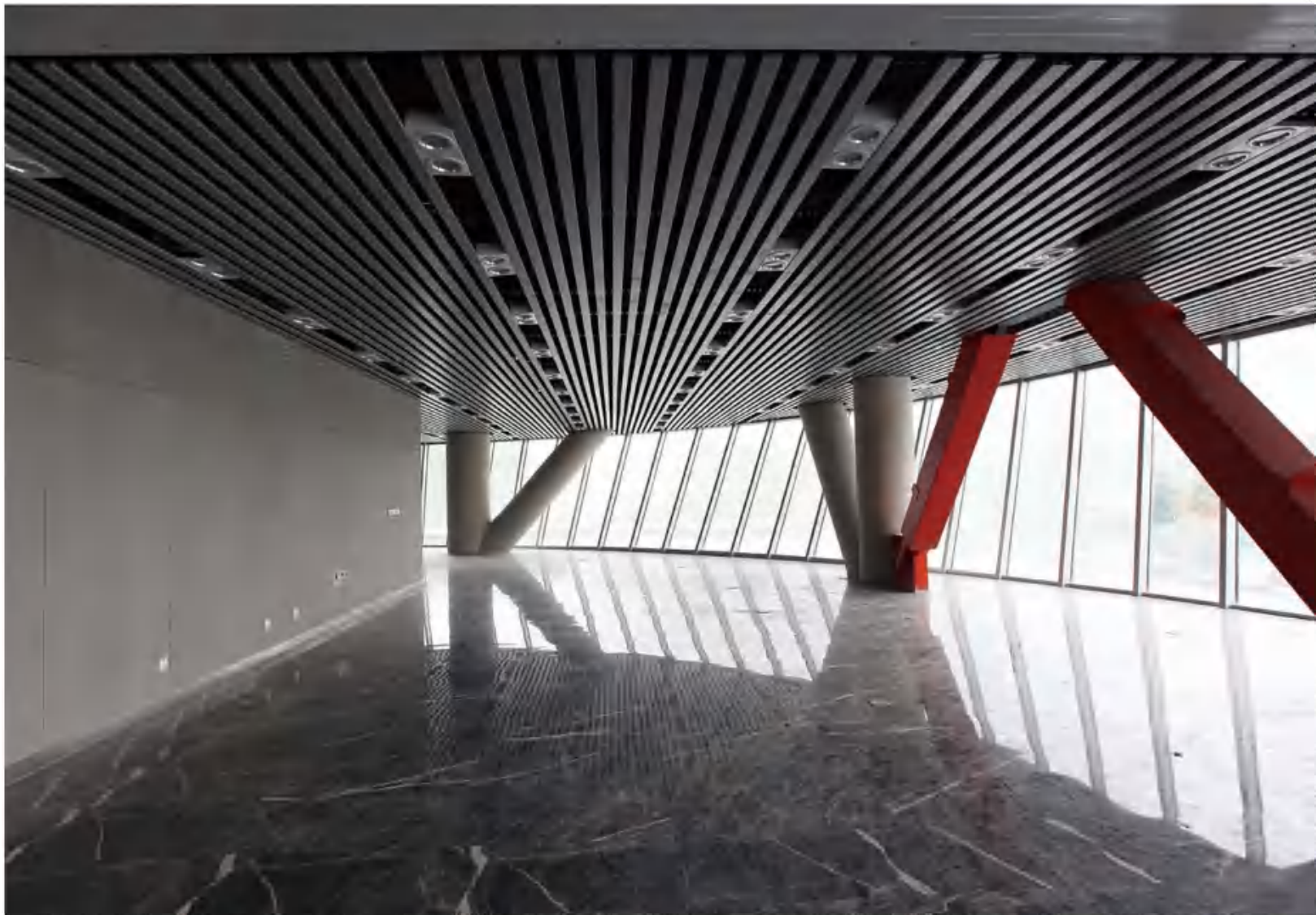
Year: 2015

Architect/Planner: TJAD

Application Materials: Buffle

Installation Method: Suspension System





# BEIJING YOUMAI MEDICAL CLINIC

Surface: Pre-coil Coating

Location: Beijing China

Year: 2015

Application Materials: Aluminum Honeycomb Panels

Installation Method: Stacked Assembly System





# TANGSHAN MATERNAL AND CHILD HEALTH HOSPITAL

Surface: Coil Coating

Location: Tangshan Hebei

Year: 2016

Application Materials: Alum Solid Panels

Installation Method: 3AS Riveted Connection System





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05

BUSINESS  
EXHIBITION  
ENVIRONMENT

VOLKSWAGEN INDIGO CENTER

MACHINERY TOWER

LENOVO (BEIJING) LIMITED PHASE II PROJECT



联想（北京）有限公司二期工程

VOLKSWAGEN INDIGO CENTER



Application Materials: Strip Panel Suspended Ceiling  
Installation Method: Suspension System



The strip panel suspended ceiling system is a decorative canopy-style ceiling, where individual metal panels are reinforced through folding/pressing and arranged in suspended arrays to adorn interior overhead spaces. Strip hanging panels allow adjustable visual ceiling heights while concealing overhead ductwork and utilities. The product also features guiding functionality, making it widely applicable for corridors and high-traffic passageways. When installed beneath glass canopies, the product provides solar shading and light modulation, diffusing incoming daylight into softer, more uniform illumination.

**System Components:**

Aluminum framing channels, J-type wind-resistant hanging rails, and ceiling suspension clips (or J-type snap-in rails with snap-in suspension clips).

**System Specifications:**

Heights of 100, 150, 200, and 300mm, with lengths up to 4000mm.

**Surface Treatments:**

Pre-coated (Coil Coating), Electrostatic powder coating, PVDF Fluorocarbon coating.

Surface: PVDF Coating

Location: Beijing China

Year: 2016

# MACHINERY BUILDING

Surface: PVDF Coating

Location: Beijing China

Year: 2018

Application Materials: Ultra-Micro Perforated Honeycomb Panels

Installation Method: Stacked Assembly System





# LENOVO (BEIJING) LIMITED PHASE II PROJECT

**System Specifications:**

300x300mm, 300x600mm, 300x1200mm, 600x600mm, 600x1200mm

**Installation Type:**

Concealed Grid System

**System Components:**

Concealed ceiling panels, hidden grid channels, concealed suspension clips, and grid connectors.

**Surface Treatments:**

Pre-coated (Coil Coating), Electrostatic powder coating, PVDF Fluorocarbon coating.

**Panel Types:**

Flat panels, honeycomb panels, micro-perforated panels, and acoustic micro-perforated panels (with non-woven sound-absorbing backing).

**Thickness Options:**

0.8-1.2mm

Surface: Coil Coating

Location: Beijing China

Year: 2018

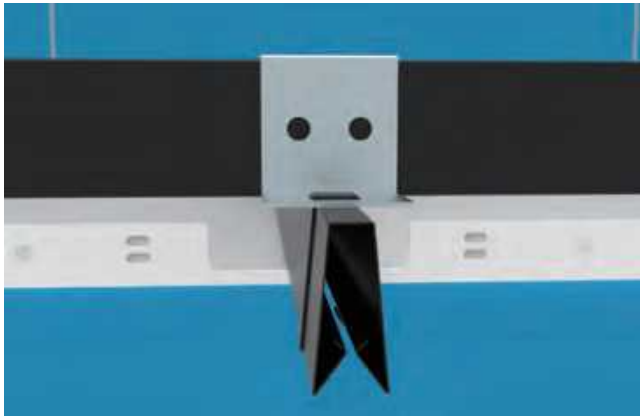
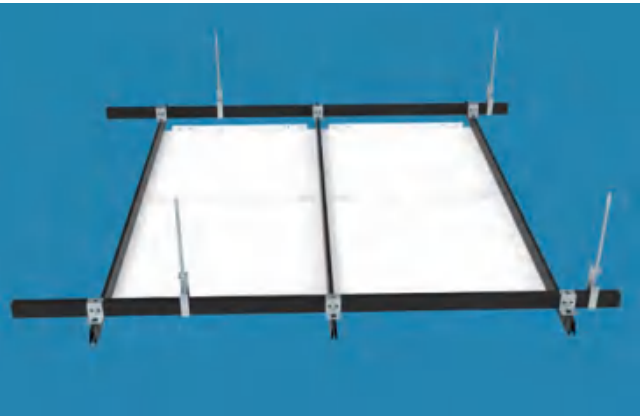
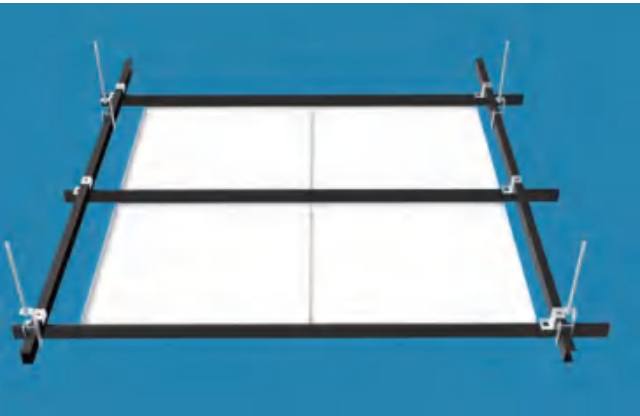
Architect / Planner: M Moser Associates

Application Materials:

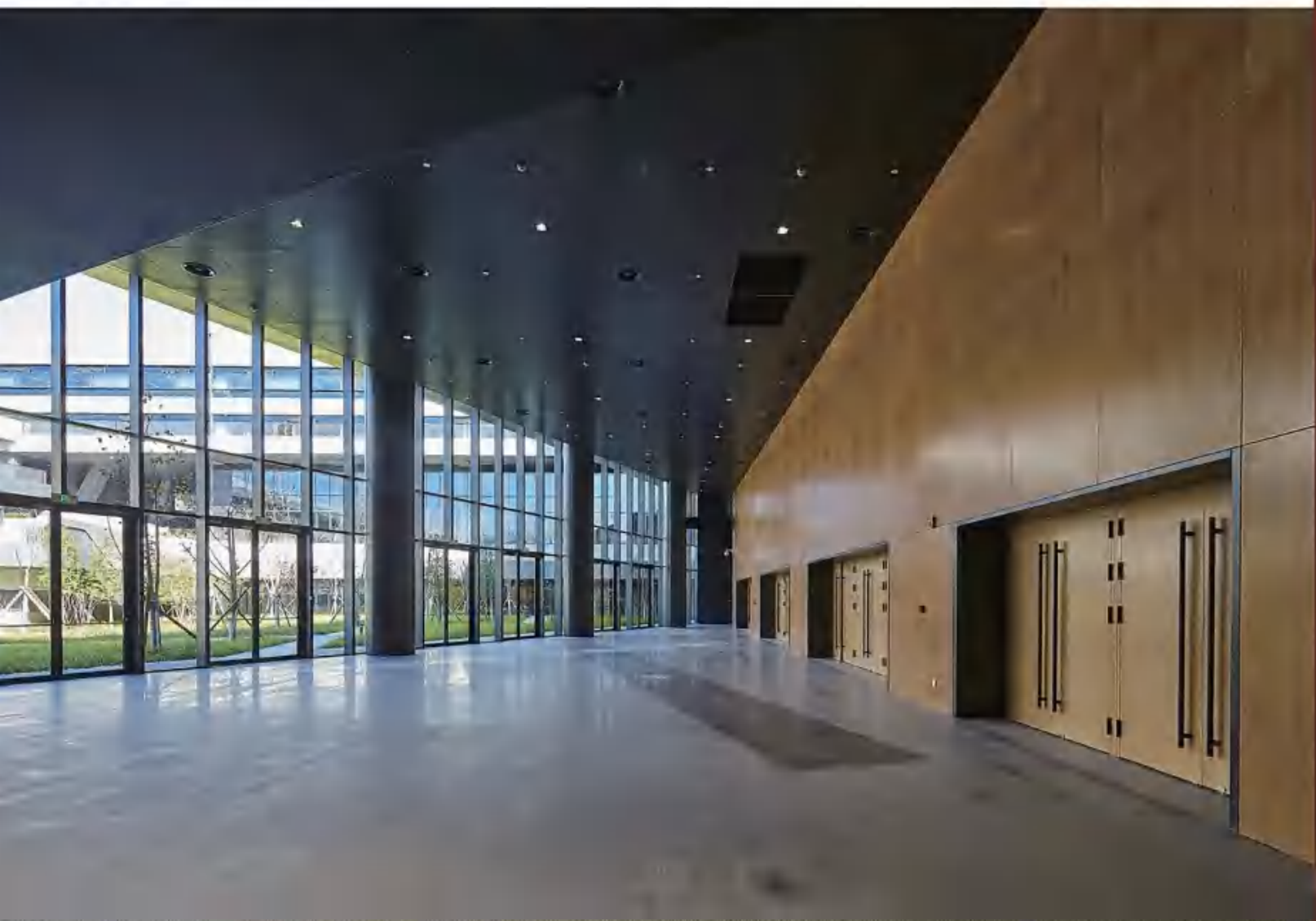
Aluminum Square Tubes, Solid Panels

Installation Method:

Concealed Suspension System









# SACHSEN

萨克森 金属吊顶与内装系统



雍科 金属外墙与建筑遮阳

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