

霍高文建筑系统  
全球建筑系统行业领军者



中国 上海

上海市浦东新区福山路458号同盛大厦20楼 200122  
电话Tel:+86 21 5058 6560  
邮箱Email:enquiry@hgvbs.com



中国 广州

广州市天河区天河路228号广晟大厦1705-07单元 510620  
电话Tel:+86 20 3222 1666  
邮箱Email:enquiry@hgvbs.com



中国 北京

北京市朝阳区朝外大街18号丰联大厦A座23层A2302单元 100020  
电话Tel:+86 10 8572 8662  
邮箱Email:enquiry@hgvbs.com



中国 重庆

重庆市渝中区大坪石油路时代天街D馆时代汇南区11栋1101室 400042  
电话Tel:+86 23 6373 2536  
邮箱Email:enquiry@hgvbs.com



中国 西安

西安市雁塔区曲江芙蓉南路3号中海大厦703单元 710061  
电话Tel:+86 29 8121 2132  
邮箱Email:enquiry@hgvbs.com



中国 天津

天津市河西区洞庭路与嘉江道交口中海财富中心2101单元 300222  
电话Tel:+86 22 5818 2825  
邮箱Email:enquiry@hgvbs.com



中国 沈阳

沈阳市沈河区青年大街209号仁恒置地3406单元  
邮箱Email:enquiry@hgvbs.com



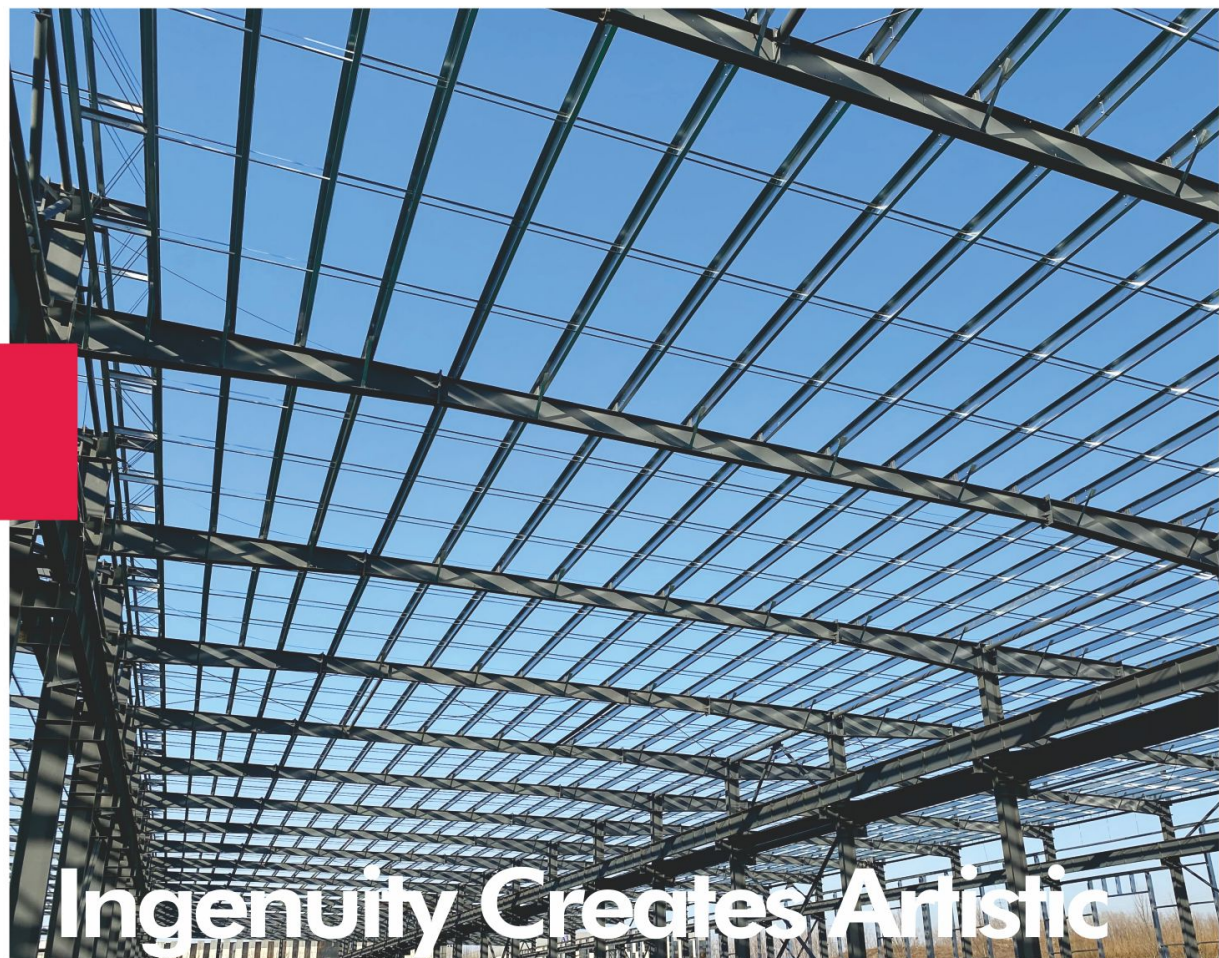
中国 成都

成都市锦江区锦官驿街道北纱帽街101号IFS国际金融中心3号办公楼33A02单元  
邮箱Email:enquiry@hgvbs.com

网址/ Official Site : [www.hgvbs.com](http://www.hgvbs.com)



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# Ingenuity Creates Artistic Inventions For The Future

匠心成就臻品  
艺术建造未来



# PHILOSOPHY

## 核心理念

以公平的价格向客户提供品质优异的产品和服务  
光荣地服务社会

Provide customers with superior products and services at  
a fair price and contribute to the society.

尊重每个人的热情和创造力  
Respect and encourage one's passion and creativity.

我们真正的工作是解决问题  
使公司各层面表现完美  
Perfect all functions by solving problems.

永远追求更高的目标  
Pursue higher goals in perpetuity.

## 了解霍高文 Hoogovens

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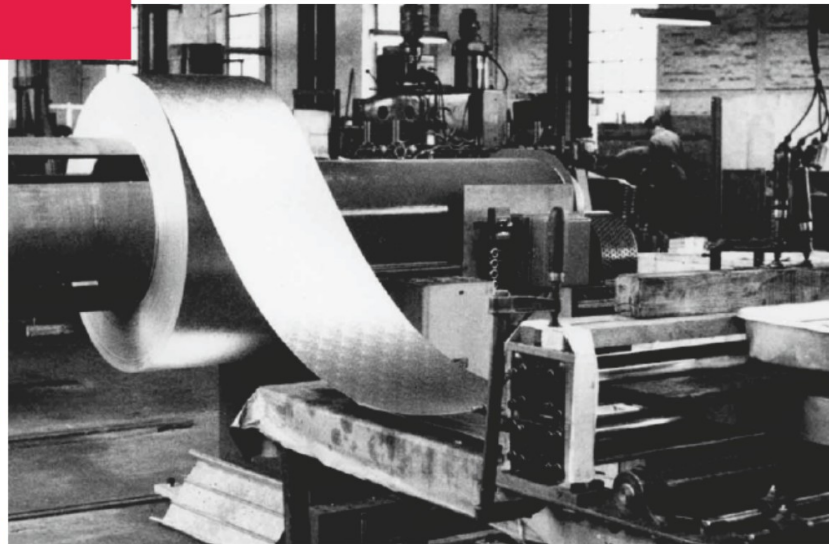
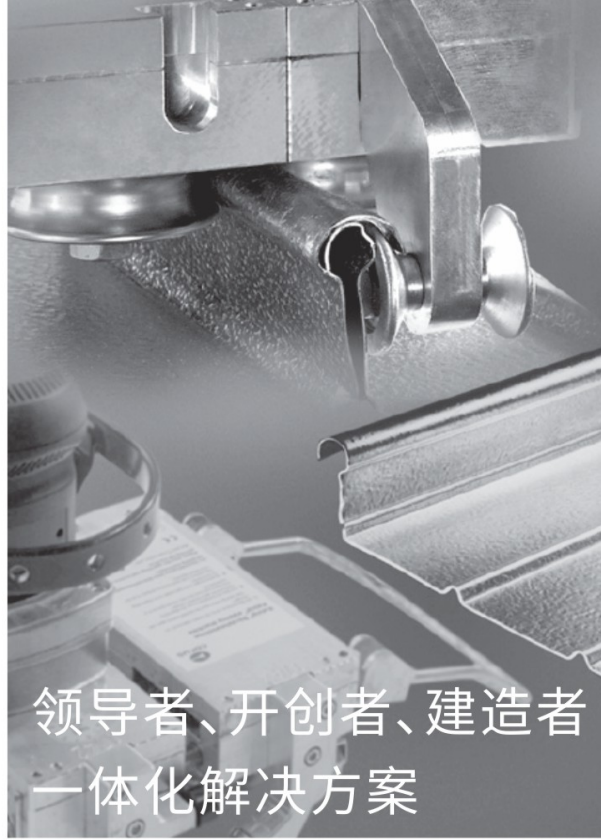
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# HOOGOVENS

领导者、开创者、建造者  
一体化解决方案



## COMPANY PROFILE

### 公司简介

霍高文作为全球金属建筑系统领导者,直立缝锁边系统的开创者,拥有权威的系统认证,使霍高文成为世界众多地标性建筑及知名工业建筑的主要建造者。自进入中国以来霍高文一直致力于为客户提供最优质的建筑系统一体化解决方案。

霍高文建筑系统(广州)有限公司于2002年注册成立,并在上海、北京、西安设立分支机构,下设天津、武汉、重庆、成都、乌鲁木齐、香港等办事处。

霍高文秉承为客户提供建筑系统一体化解决方案的宗旨,专业为客户提供建筑方案咨询、工程专业设计、精益生产制造、项目管理、售后维护五维一体的建筑系统解决方案,让独一无二的设计与经久耐用的性能完美结合。霍高文参与的项目囊括工业建筑、体育场馆、文化会展、交通枢纽、物流中心及商业综合体等类别,已完成国家大剧院、国家体育馆、上海世博演艺中心、上海东方体育中心、烟台张裕工业园、山东泰丰国际科技工业园、天津朝亚数据中心、华为乌兰察布数据中心、华为苏州研发中心、广州亚运城综合体育馆、广州白云机场、杭州奥林匹克体育中心、利比里亚国际机场、孟加拉达卡国际机场及中国援塞内加尔摔跤竞技场等众多海内外项目。

霍高文依靠集团的强大实力,不断迎接新的机遇和挑战,持续创新,追求卓越!

霍高文始终致力于为客户提供品质优异的产品和服务,点点滴滴、锲而不舍、止于至善!

As one of the leading global metal building system companies, HOOGOVENS is the pioneer of the aluminum standing seam roof system and has the authoritative system certification, which making HOOGOVENS the main builder of many landmark buildings and well-known industrial buildings in the world. Since entering China, HOOGOVENS has been committed to providing customers with the high-quality integrated building system solutions.

Hoogovens Building Systems (Guangzhou) Ltd. was incorporated in 2002, with branches in Shanghai, Beijing and Xi'an, and Sales offices in Tianjin, Wuhan, Chongqing, Chengdu, Urumqi, and Hongkong etc. Covering businesses all over the country.

Adhering to the principle of providing customers with integrated building system solutions, HOOGOVENS specializes in the five-in-one building system solutions which are architectural solution consulting, professional engineering design and innovation, excellent manufacturing, comprehensive project management and after-sales services, so as to perfectly combine unique design with durable performance. HOOGOVENS has participated in the construction of various projects ranging from industrial buildings, stadiums, cultural exhibitions, transportation hubs to logistics centers and commercial complexes. Some of its landmark projects worldwide include the National Grand Theater, National Gymnasium, Shanghai Mercedes-Benz Arena, Shanghai Oriental Sports Center, Yantai Changyu Industrial Park, Shandong Taifeng International S&T Industrial Park, Tianjin Chayora Data Center, Huawei Ulanqab Data Center, Huawei Suzhou R&D Center, Asian Games Town Gymnasium(Guangzhou), Guangzhou Baiyun International Airport, Hangzhou Olympic Sports Center, Liberia International Airport, Hazrat Shahjalal International Airport( Dhaka, Bangladesh) and Senegal Wrestling Stadium, etc.

By virtue of the multi-faceted strengths of our group, Hoogovens is confident in embracing future challenges and opportunities and striving for excellence through constant innovation.

In accordance with the essence of working with perseverance bit by bit and aiming at absolute perfection, HOOGOVENS is always committed to providing customers with high-quality products and services!

# DEVELOPMENT HISTORY

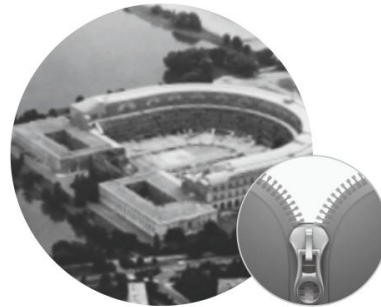
## 发展历程

美国实业家亨利·凯泽于美国华盛顿成立Kaiser Aluminum。  
Kaiser Aluminum was founded by Henry Kaiser in Washington, USA.



1946年

Kaiser Aluminum从衣服拉链获得灵感，发明了世界上最早的直立锁边屋面系统解决方案Kalzip。  
Kaiser Aluminum invented Kalzip by getting inspired from zipper, the world's first aluminum standing seam roof system.



1968年

1918年



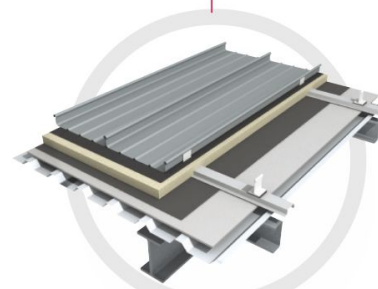
Koninklijke Hoogovens在荷兰成立，20世纪30年代中期成为世界最大的生铁出口商。Koninklijke Hoogovens was founded in Netherlands. By the mid 1930's, Hoogovens had become the largest exporter of pig iron in the world.

1966年



Koninklijke Hoogovens开始进行铝卷的生产和销售。Koninklijke Hoogovens began production and sales of aluminum.

1987年



Koninklijke Hoogovens收购Kaiser Aluminum的欧洲业务，Hoogovens成为欧洲四大铝业生产商之一。  
The European activities of Kaiser Aluminum were acquired, making Hoogovens one of the four largest producers of rolled and extruded aluminium in Europe.

Koninklijke Hoogovens和British Steel PLC合并成立康力斯集团(Corus)，康力斯成为欧洲最大，世界三大钢铁公司之一。  
Hoogovens merged with British Steel PLC to form Corus Group PLC, making Corus the largest steel company in Europe and the third largest worldwide.



1999年

2002年



康力斯成立全资子公司霍高文建筑系统(广州)有限公司，成为首批在中国提供直立锁边屋面系统解决方案的供应商，使用商标Corus和Kalzip。  
Corus incorporated wholly-owned subsidiary Hoogovens Building Systems (Guangzhou) Co., Ltd., became the first supplier of aluminum standing seam roof system in China, under the trademark Corus and Kalzip.

2007年

2017年



上海秦恒全资控股霍高文建筑系统有限公司。霍高文继续坚守为客户提供品质优异的产品与服务的理念，同时加强研发与创新，全面扩展产品线。  
TSINGHEN Shanghai acquired Hoogovens Building Systems Co., Ltd. Hoogovens insists in providing customers with the best products and services, strengthening R&D and innovation to fully expand the product line.

康力斯成为印度钢铁巨头TaTa集团一员，并于2010年更名为塔塔钢铁欧洲公司(Tata Steel Europe)。多年来在全球供应了大量直立锁边产品，为众多海内外项目提供了专业的产品与服务。  
Corus was acquired by Tata Group of India and renamed Tata Steel Europe in 2010. Hoogovens has supplied a large number of aluminum standing seam products worldwide during these years, providing professional products and services for many domestic and overseas projects.

# PROFESSIONAL SERVICE CAPABILITIES

## 专业服务能力

### ENGINEERING AND INNOVATION

#### 工程设计与研发创新

##### 工程设计解决方案

霍高文独具匠心的产品组合，将造型、色彩、功能和谐完美地融合在一起。我们拥有专业的设计能力及丰富的项目经验，能把建筑师的想法和梦想演绎成现实，过去五十多年来，为全球各地的客户提供了众多完美无瑕的解决方案。

##### 技术研发创新

我们一直坚守在建筑设计的最前沿，坚持不懈地挖掘创新设计的潜力，多年累积的丰富经验和高度专业化的技术技能，保证了霍高文始终处于行业领先地位。

##### Engineering Design Solution

Our professional design capabilities and rich project experience help architects realize their ideas and interpretations.

During the past 50 years we have provided many customers with flawless solutions.

##### Technology Research&Innovation

We have always been at the cutting edge of architectural design, steadfastly exploring new design potential. Our technical competence garnered over many years of professional practice has ensured Hoogovens to be the leader in the industry.

航空航天工程设计方案

汽车制造业设计方案

物流业设计方案

农业建设工程设计方案

纺织业工程设计方案

机械制造业工程设计方案

多项实用新型专利  
Numerous New Utility Model Patents



工程设计能力  
Engineering & Design



### PROJECT MANAGEMENT

#### 项目管理

霍高文分别在北京、上海、广州、西安设立了项目管理中心，建立了覆盖全国的项目服务网络，快速反应，就近给客户id提供优质服务。

专业的项目经理，根据项目的实际情况，对项目进行全面策划、制定计划、实行全过程监控管理、严格控制项目工期。

以工地现场为项目指挥中心，充分调动公司资源，对项目的关键点、难点进行分析，提出专业解决方案。

专业的安装指导，对安装质量严格监控。

掌握多国语言，具备海外项目的服务能力，拥有丰富的行业经验。

项目全过程安全监督。

公司设有售后服务团队，为客户提供后期跟踪服务。

Hoogovens has established project management centers in Beijing, Shanghai, Guangzhou and Xi'an, giving it a project service network with nationwide coverage and enabling it to respond rapidly in giving customers quality services.

Our professional project managers undertake comprehensive project planning according to up-to-date site conditions, execute each project on time with close monitoring of the actual building progress.

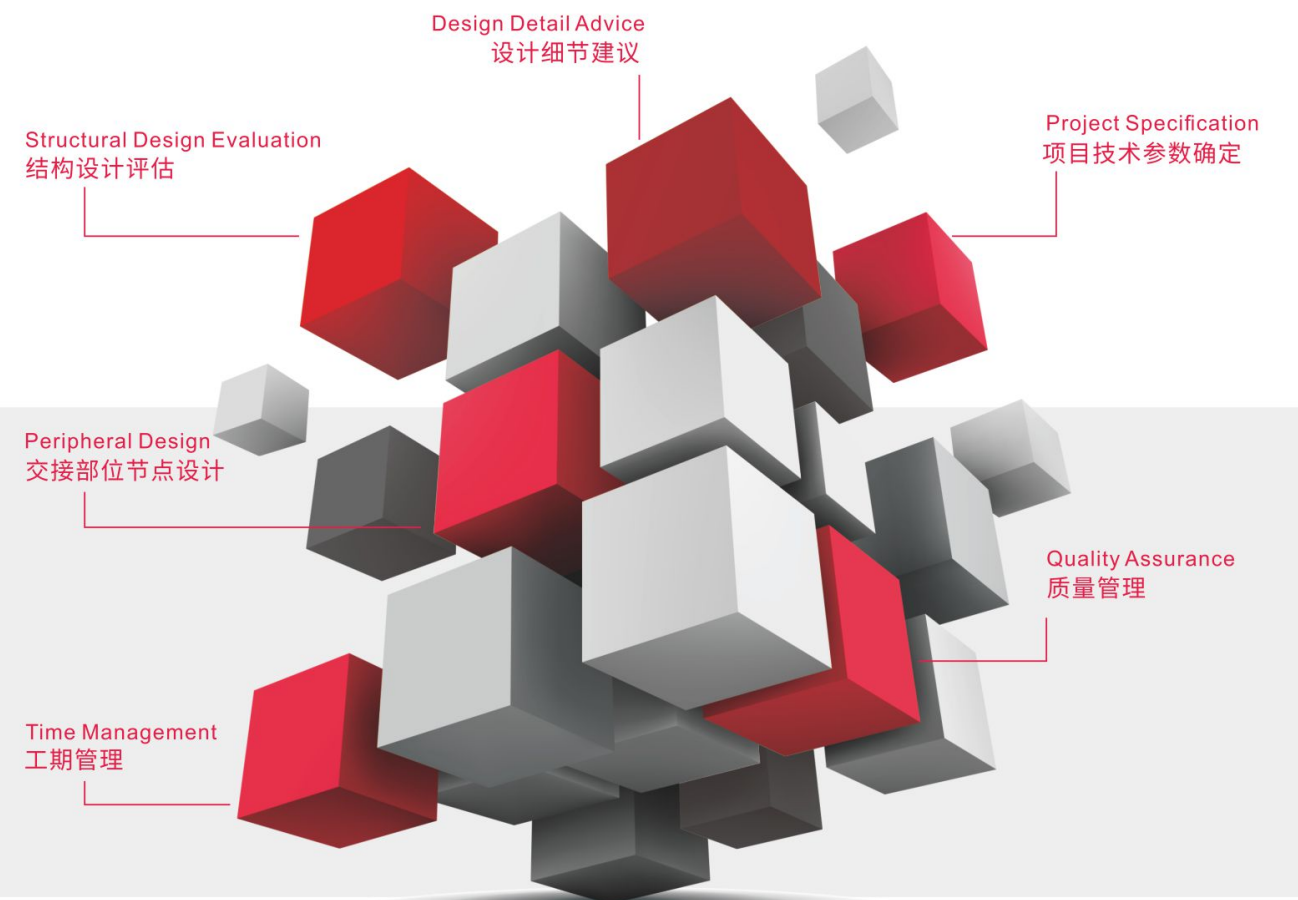
Project command center is always located at the actual job site. It allows full deployment of the company's resources, enables us to timely analyze project milestones and recommend professional solutions to key area of concerns.

With professional installation guide, monitoring installation strictly.

Being multi-lingual and with considerable industry experience, our project management team is competent in supervising overseas projects.

They also conduct safety supervision during the entire process of projects.

Our company has multi-discipline team of staff who is eager to provide after-sales services for customers.



# 专业的生产制造技术及团队 PROFESSIONAL TECHNOLOGY AND TEAM FOR MANUFACTURING

## LEAN PRODUCTION

### 精益生产

全球顶尖生产设备,丰富的板型,可以满足各种复杂项目的需求。

公司建立了完善的质量管理体系,通过了ISO9001:2015质量体系认证。

结合国内外的行业规范和标准,建立了一套严格的质量检查、检验流程。

结合项目的实际情况,提供现场压型生产服务。

拥有丰富的现场压型生产经验,可以提供地面压型和高空压型服务。

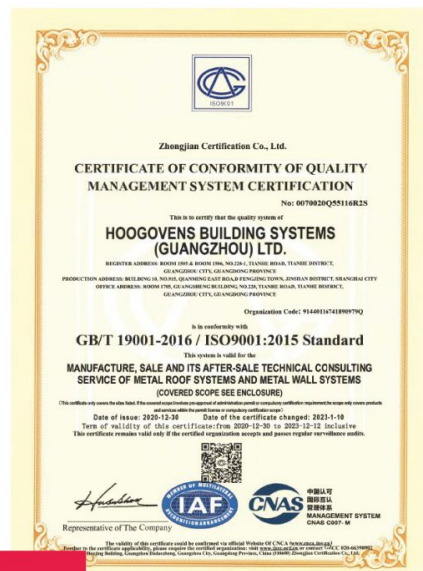
Our top-notch manufacturing equipment and numerous roll-formed profiles can meet all complex project needs.

Our company has established a comprehensive quality management system, accredited with ISO9001:2015 quality management certification.

We have implemented a strict quality control and inspection procedure based on local and international industry regulations and standards.

We provide on-site roll-forming production services according to the project's needs.

Our vast on-site roll-forming experience allows us to provide both on-ground and elevated roll-forming service.



# HONORS AND AWARDS

## 获奖情况



# HOOGOVENS INTEGRATED SOLUTION

## 霍高文一体化解决方案

### 建筑主结构系统

#### PRIMARY STRUCTURE SYSTEM

霍高文预制钢结构建筑根据客户的工艺要求和空间逻辑进行定制设计,旨在提供最大的空间利用率、合理高效的运营布局、出色的结构强度和最高的安全标准。

霍高文预制钢结构建筑可以按照国家规范和国际标准进行严格设计,包括中国国家规范和标准、AISC (美国钢结构协会)、AISI (美国钢铁协会)、MBMA (金属建筑制造商协会)、AWS (美国焊接协会)规范和标准及欧盟规范和标准等。

霍高文针对预制钢结构建筑制定了霍高文的标准化管理流程,并在项目管理过程中严格执行、落实,保证了结构设计、加工制造、现场施工安装的精准、安全、高效和快捷,从而使霍高文预制钢结构建筑的优异品质有了可靠保证。

HOOGOVENS PEMB is tailored according to the process requirements and space logic, aiming to provide the maximum space utilization, rational and efficient operation layout, outstanding structural strength and the highest safety standard. HOOGOVENS PEMB could be strictly designed according to both national and international standards, including Chinese National Codes and Standards, AISC (American Steel Structure Association), AISI (American Steel Association), MBMA (Metal Building Manufacturers Association), AWS (American Welding Association), and EU codes and standards.

HOOGOVENS has formulated and strictly implemented its standardization and management process for Pre-Engineered Metal Buildings, to ensure its superior quality by the accuracy, safety, efficiency and time-saving of structural design, manufacturing, on-site construction and installation process.

#### 霍高文 CLEAR-SPAN 大跨度结构系统

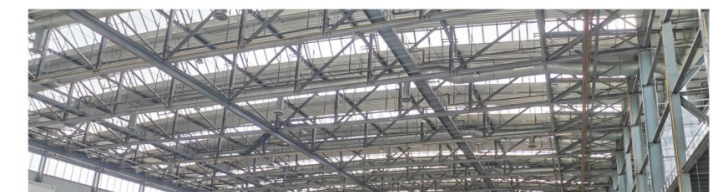
- 结合工艺要求,专为宽度大、需要尽量减少内柱使用量的建筑而设计,特别适用于工业厂房、仓库、车站及超市等大型建筑
- 大跨度结构系统门式刚架在多数项目中得到了广泛应用,经济、实用且设计具有无限的灵活性
- 大净跨可以提供最大的空间利用率
- 采用3D软件进行三维建模,可兼容几乎所有的檐高、宽度及屋面坡度
- 可以结合日后扩建的需求,对结构宽度与檐高及屋面坡度进行匹配



- Special designed for large width and large building that minimize the use of internal columns, such as industrial plants, warehouses, stations and supermarkets, etc.
- Widely used in most large-span structural projects, economical, practical and infinite flexibility in design.
- Large clear span can provide maximum space utilization.
- 3D software is used for 3D modeling, which can be compatible with almost all eaves height, width and roof slope.
- The structural width, eave height and roof slope can be matched according to future expansion needs.

#### 霍高文 TRUSS-PURLIN 桁架檩条结构系统

- 具有极大的设计灵活性,柱距可达18米,以50毫米为单位进行递增
- 采用实腹梁主结构,空腹梁次结构(桁架檩条),屋面及墙面采用支撑杆
- 可以设计成单脊单坡、单脊双坡及不对称屋脊
- 设计满足国家规范及项目所在地的荷载要求



- Great design flexibility, and the column spacing can be up to 18 meters, a progressive increase in 50 mm.
- Adopt the main structure of solid web beam, the secondary structure of hollow web beam (truss purlin) and the roof and wall adopt support rods.
- Can be designed as single ridge and single slope, single ridge and double slope and asymmetric ridge.
- Satisfying the requirements of the national norms and regulations and the load requirements of the project location.



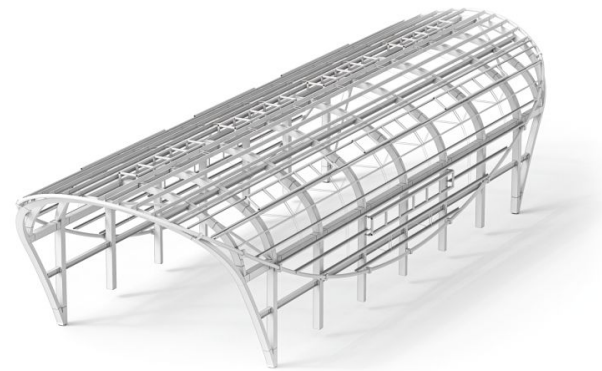


### 霍高文 MULTI-STORY 多层结构系统

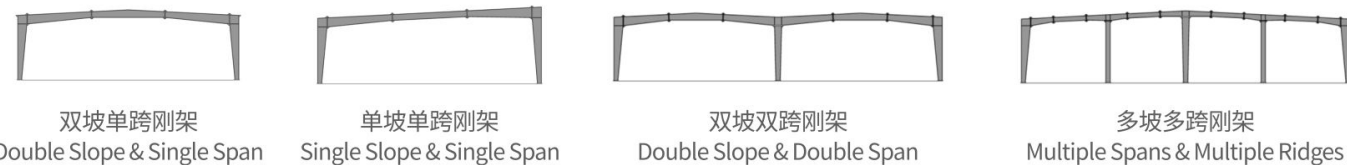
- 用于多层结构建筑
- 可根据项目要求, 进行灵活的结构设计
- 净跨大, 最大限度减少柱子的使用
- 装配式设计, 施工方便、快捷
- 易于后期的维护及管理
- For multi-storey buildings.
- Flexible structural design according to project requirements.
- Large clear span to minimize the use of columns.
- Assembly design, convenient and fast construction.
- Easy for later maintenance and management.

### 霍高文 TAILORED-STRUCTURE 异形空间结构系统

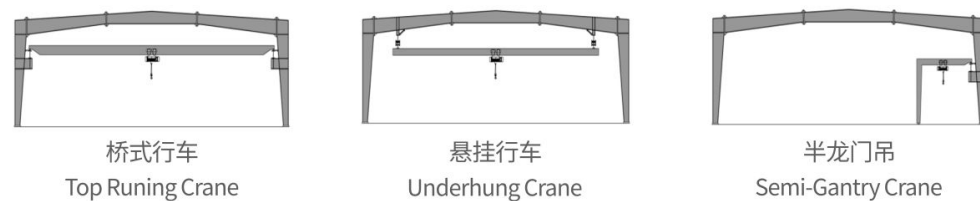
- 利用Rhino, Tekla等软件进行3D建模设计
- 可采用桁架、网架等多种结构形式
- 应用于各类造型复杂的建筑
- 定制化设计, 满足个性要求
- 施工方便、快捷
- 3D modeling design with Rhino, Tekla, etc..
- Truss, grid and other structural forms.
- Applied to various buildings with complex shapes.
- Customized design to meet individual requirements.
- Convenient and fast construction.



### 结构类型 Structure Type



### 行车类型 Crane Type

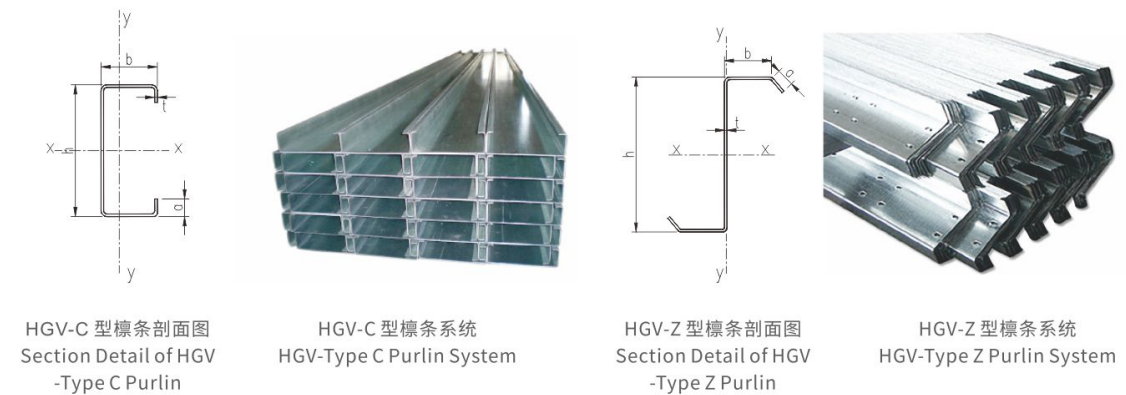


### 产品特点与优势

- 霍高文结构檩条连接了主结构和屋面、墙面系统, 是整个建筑系统的重要组成部分
- 霍高文结构檩条系统设计符合国家规范 GB50018-2002《冷弯薄壁型钢结构技术规范》
- 霍高文结构檩条采用高品质热浸镀锌原料, 强度为S355, 双面镀锌量275g/m<sup>2</sup>
- 霍高文结构檩条系统有Z型和C型两种截面可供选择, 分别用于墙面和屋面
- Z型檩条用于连续结构, C型檩条用于简支结构及开口支撑, 根据设计进行工厂预冲孔, 并与霍高文建筑系统围护结构相匹配
- 霍高文结构檩条采用工厂预冲孔技术, 确保现场安装精准、高效、快捷
- 霍高文桁架檩条系统是另一种常见的次结构, 用于超大开间建筑

### PRODUCT FEATURES AND ADVANTAGES

- Hoogovens structural purlin connects the primary structure with the roof and wall systems, and is an important part of the entire building system.
- The design of Hoogovens structural purlin system conforms to the national standard GB50018-2002 "Technical Code of Cold-Formed Thin-Wall Steel Structures".
- Hoogovens structural purlins are made of high-quality hot-dip galvanized raw materials, the strength is S355, and the amount of double-sided galvanizing is 275g/m<sup>2</sup>.
- Hoogovens structural purlin system is available in Z-shaped and C-shaped sections, which are used for wall and roof respectively.
- Z-section Purlins are used for continuous structures, C-section Purlins are used for simply supported structures and open supports, factory pre-punching is carried out according to the design, and it is matched with Hoogovens building cladding system.
- Hoogovens structural purlin are factory pre-punched to ensure accurate, efficient and fast installation.
- Hoogovens truss purlin system is another common substructure used in wide span buildings.



HGV-C 型檩条剖面图  
Section Detail of HG  
-Type C Purlin

HGV-C 型檩条系统  
HG-Type C Purlin System

HGV-Z 型檩条剖面图  
Section Detail of HG  
-Type Z Purlin

HGV-Z 型檩条系统  
HG-Type Z Purlin System



檩条安装现场  
Site of Purlin Installation

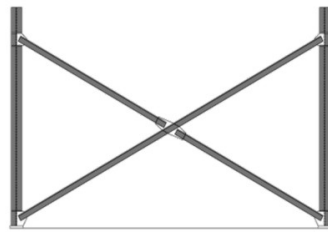
## 建筑次结构系统 SECONDARY STRUCTURE SYSTEM

### 支撑及楼承系统 BRACING&DECKING SYSTEM

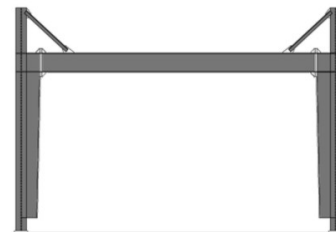
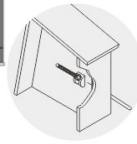
#### 支撑系统 BRACING SYSTEM

在建筑服务咨询环节, 霍高文关注客户的需求, 高效的设计前沟通, 深入了解生产工艺、建筑功能对结构设计的要求, 霍高文结构工程师可以从丰富的结构支撑体系中选择最优的方案, 达成最佳的建筑使用效果。

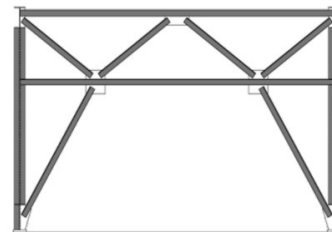
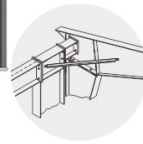
During the building design consulting stage, Hoogovens pay more attention to the customer's needs, to select the best bracing solution in the rich structure bracing systems through fully understanding the process and the structure requirement of building, to reach the perfect building utilization result.



交叉支撑  
X-Bracing



门式支撑  
Portal-Bracing



门式支撑(桁架)  
Portal-Bracing(Truss)

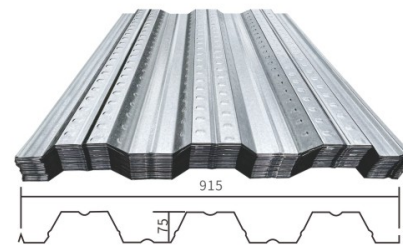
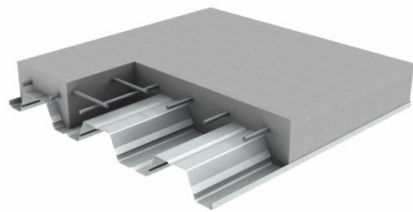
#### 75H 楼承板系统 75H DECKING SYSTEM

##### 产品特点与优势

- 专用于夹层结构的 Floor Deck 楼面钢承板
- 表面凹凸加劲肋, 与混凝土有极强的机械咬合力
- 可作为夹层混凝土模板使用, 也可作为组合楼承板与混凝土协同工作
- 安装方便快捷, 在施工过程中能提供更大的无支撑跨度, 从而加大次梁间距, 降低工程造价

##### PRODUCT FEATURES AND ADVANTAGES

- Floor deck for MULTI-STORY structure.
- Embossed surface to enhance the conjunction between the decking and concrete.
- Used for concrete module supporting system or as part of the combination concrete system.
- Easy and fast installation, to provide a large un-supporting span during construction progress, thereby to enlarge the span of secondary beams and lower the cost.



##### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TCT) Thickness (mm)	0.8/1.0/1.2
板型覆盖宽度 Panel Cover Width (mm)	915
肋高 Rib Height (mm)	75
镀锌钢板材质 Galvalume Steel Panel Grade	G350 Z275
适用范围 Scope of Applications	楼面钢承板 Floor Deck

## ROOF SYSTEM 屋面系统

Spencer Street Station, Australia

# 屋面系统 ROOF SYSTEM

## H65 直立锁边屋面系统 H65 ROOF SYSTEM

### 产品特点与优势

- 先进的直立锁边连接方式,无螺钉穿透,优良的水密性及防雨雪渗漏能力,出色的抗风性能
- 提供直板、弧形板、扇形板、异形板和多种板宽的选择,满足各种富有个性化的建筑设计风格
- 可根据项目的需要提供现场压型服务,避免板的纵向搭接
- 选择铝镁锰板,使用寿命达50年以上
- 同时满足保温、隔音、吸音、防潮等使用功能
- 丰富的屋面配套系统,包含挡雪系统、防坠落系统、装饰板系统等

### PRODUCT FEATURES AND ADVANTAGES

- Advance standing seam mechanism requires no screws penetration and offers outstanding weather tightness as well as excellent resistance against rain, snow seepage and wind load.
- Straight, curved, tapered and free-form panels in different widths can meet requirements of various architectural designs.
- On-site roll-forming can be provided based on the project's specific requirements thus reducing end lapping of sheets.
- Panels manufactured using aluminum, service life over 50 years.
- System can also be catered to different insulation, acoustic and vapor control requirements.
- Wide variety of accessories including snow dam, fall arrest, decorative panel systems etc..



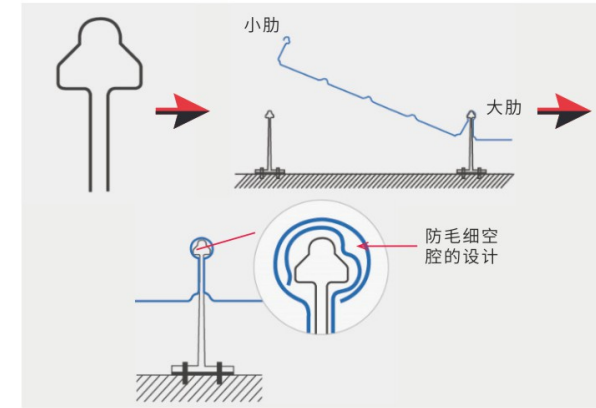
### 技术参数 TECHNICAL SPECIFICATIONS

铝镁锰板厚度 Thickness of Aluminum Panel (mm)	0.9/1.0/1.2
板型覆盖宽度 Panel Cover Width (mm)	直板 Straight Panel (305/333/400/500) 扇形 Taper Panel (225-500) XT异形板 XT Panel (230-760)
肋高 Rib Height (mm)	65
最小建议坡度 Recommended Minimum Gradient	1.5%
铝镁锰板材质 Aluminum Panel Grade	AA3004 H24/H26 H44/H46
铝板表面处理 Surface Treatment for Aluminum Panel	STUCCO/PVDF

# 屋面系统 ROOF SYSTEM

## H65 直立锁边屋面系统 H65 ROOF SYSTEM

### 直立锁边大小肋扣合方式 MEANS FOR LOCKING



### 先进的机械锁边方式 ADVANCE MECHANICAL ZIPPING METHOD



### ST固定座和E型固定座 ST CLIP AND E CLIP



### H65系统有不同高度的固定座可供选择

- ST固定座(带隔热垫块): L10-L190
- E型固定座: E5-E180

### H65 System Offers A Range of Clips with Different Heights

- ST Clip (with thermal barrier pad): L 10-L 190
- E Clip: E5-E180

### 全新的E型固定座性能更佳

- 高科技合成技术将高强钢骨架支架与耐老化工程塑料精密结合
- 在次结构和霍高文屋面之间无冷热桥,提高屋面系统的整体保温隔热效果
- 降低了固定座和屋面板之间的摩擦阻力

### New E Clip Offers Better Performance

- State-of-art steel reinforced polyamide clip.
- Eliminate thermal bridging and improve overall insulation performance for roofing system.
- Reduces frictional resistance between clips and roofing panels.

### XT型屋面板 XT ROOF PANELS



# 屋面系统 ROOF SYSTEM

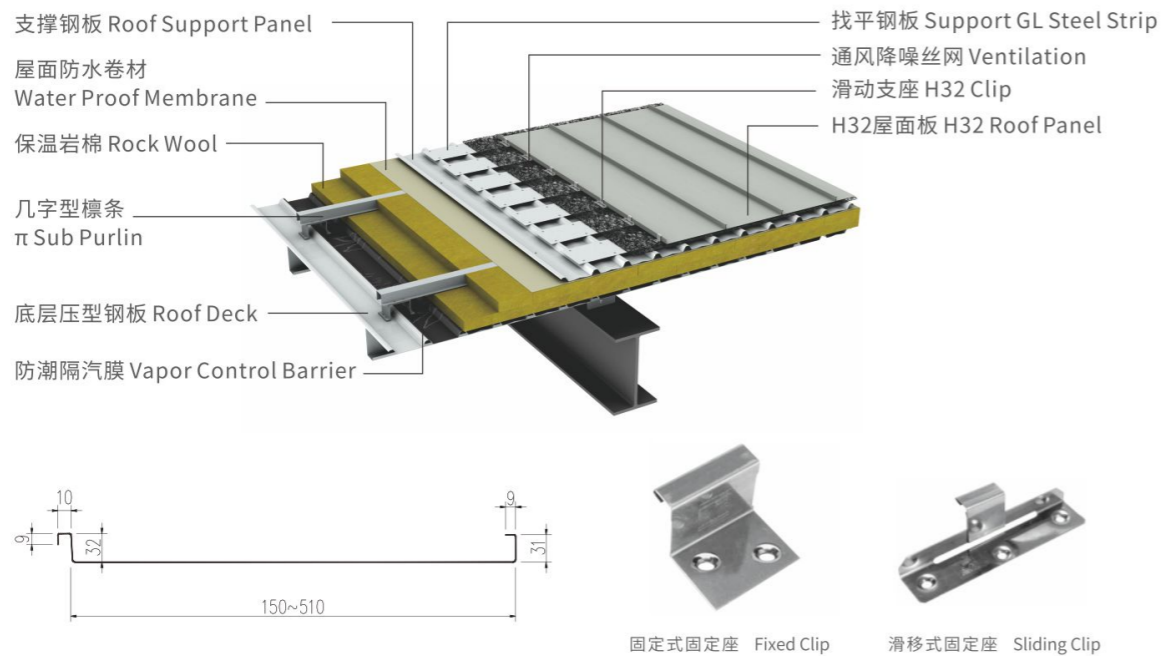
## H32 矮肋直立卷边屋面系统 H32 ROOF SYSTEM

### 产品特点与优势

- 可加工成直板、扇形板，并可弯曲成正弧形、反弧形
- 根据建筑设计效果，可调整板型宽度
- 可完成各种复杂建筑造型屋面，如球形、锥形、多坡等屋面
- 360度卷边工艺大大提高屋面的防水性能
- 丰富多样的构造层次可满足屋面的保温隔热、隔声降噪等性能
- 可根据项目需要提供现场压型服务
- 具有钛锌板、铝镁锰板、铜板、不锈钢板等多种材质选择

### PRODUCT FEATURES AND ADVANTAGES

- Panels can be straight, concave, convex curved or tapered.
- Panel width can be adjusted to suit building esthetic requirement.
- Can follow complex geometric shape of the building such as dome, conical and multi-wave.
- Double lock (360 degree fold) system significantly improve water tightness.
- Flexible roof system design with outstanding thermal and acoustic performance.
- On-site or off-site production options are available.
- Numerous materials available including titanium-zinc, aluminum and copper.



### 技术参数 TECHNICAL SPECIFICATIONS

钛锌板厚度 Thickness of Titanium-zinc Panel (mm)	0.7/0.8
铝镁锰板厚度 Thickness of Aluminum Panel (mm)	0.7/0.8/0.9
板型覆盖宽度 Panel Cover Width (mm)	直板 Straight Panel (150~510) 扇形板 Taper Panel (150~510)
肋高 Rib Height (mm)	32
最小建议坡度 Recommended Minimum Gradient	3°
固定座支撑间距 Clips Spacing (mm)	300~500
钛锌板材质 Titanium-zinc Panel Grade	锌铜钛合金 Zinc-copper-titanium Alloy
铝镁锰板材质 Aluminum Panel Grade	AA3004/AA5754

\* 铜板及不锈钢板可供选择

# 屋面系统 ROOF SYSTEM

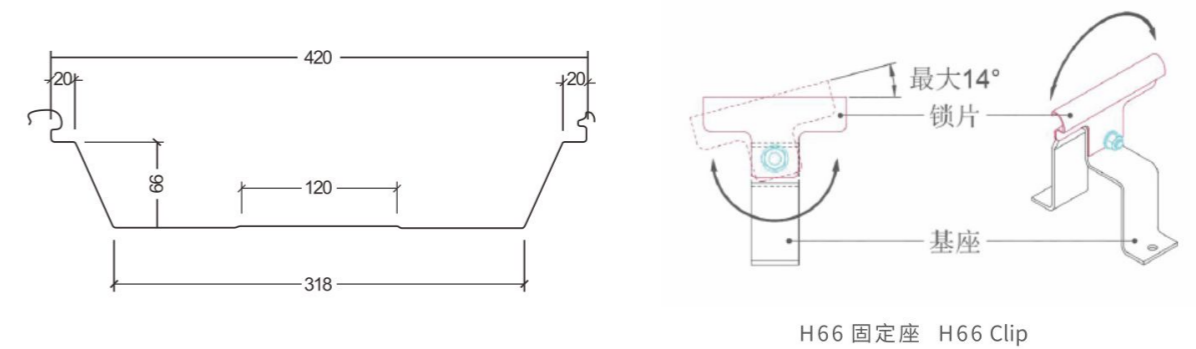
## H66 直立锁缝屋面系统 H66 ROOF SYSTEM

### 产品特点与优势

- 屋面板现场一体成型，无搭接处理
- 双面扣合水密性高，固定座可调节屋面斜度
- 屋面板无螺丝穿孔，不受温度效应影响破坏
- 屋面专属配件完整、丰富，满足各类设施安装需求

### PRODUCT FEATURES AND ADVANTAGES

- Allow on-site roll-forming of long sheet lengths thus reduce end-lap.
- Excellent water tightness, adjustable clip head angle to suit roof installation needs.
- No penetration on roof panels by screws, no deformation of roof panels due to thermal expansion.
- Comprehensive range of roof accessories to meet all types of installation requirements.



### 技术参数 TECHNICAL SPECIFICATIONS

镀铝锌钢板厚度 Thickness of Galvalume Steel Panel (mm)	0.6/0.8
板型覆盖宽度 Panel Cover Width (mm)	420
波峰台阶高度 Effective Profile Depth (mm)	66
最小建议坡度 Recommended Minimum Gradient	1°
建议檩条支撑间距 Recommended Purlin Span (m)	1.2~1.5
镀铝锌钢板材质 Galvalume Steel Panel Grade	G350/AZ200
钢板表面处理 Surface Treatment for Galvalume Steel Panel	CleanSRP

# 屋面系统 ROOF SYSTEM

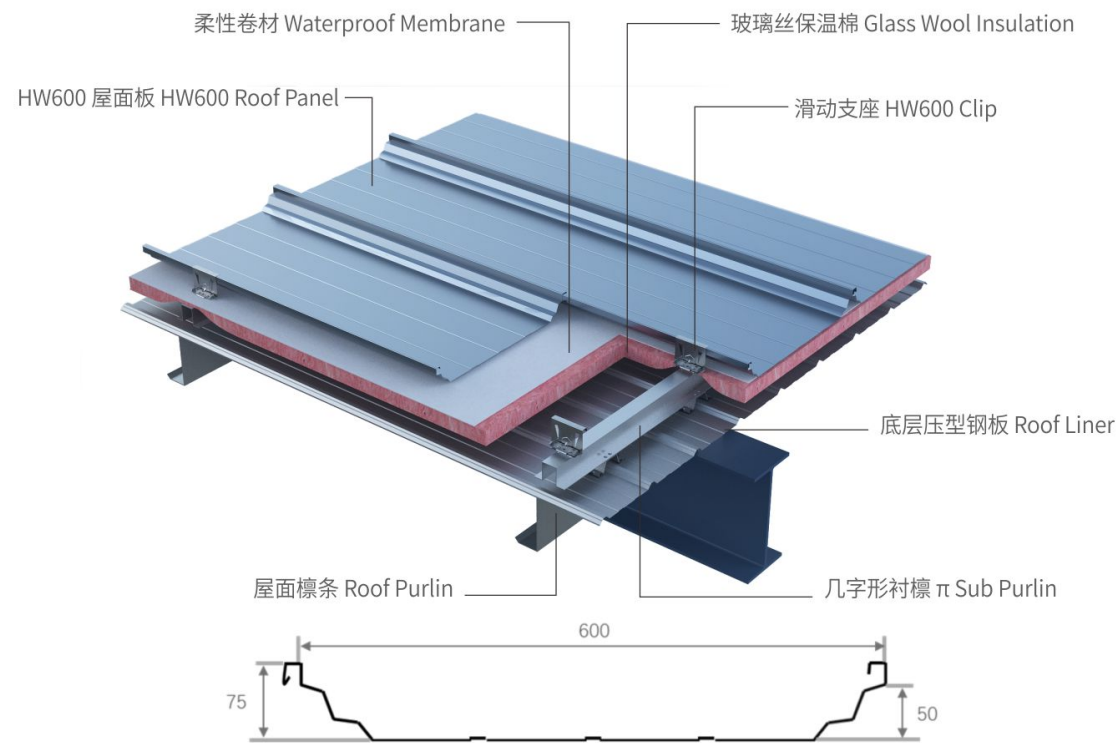
## HW600 直立卷边屋面系统 HW600 ROOF SYSTEM

### 产品特点与优势

- 540°锁缝技术, 提供了极佳的抗风和防水性能
- 屋面板铺设完成未锁边即可达到360°扣合效果, 安装更安全
- 屋面板和配套固定座均采用预注胶技术, 更好地保证了屋面系统的气密性、水密性, 尤其是解决了寒冷地带金属屋面冬季抗冻融问题
- 预植螺栓技术配合屋面板的预冲孔技术, 达到了更好的装配式安装效果, 施工更加精准、高效
- 霍高文标准化的执行, 保证了屋面系统的高品质和适配性, 提高了安装效率

### PRODUCT FEATURES AND ADVANTAGES

- 540° Quadro-Lock stand seaming technology, providing excellent wind resistance and waterproof performance.
- After the roof panel is laid, the 360° buckle effect can be achieved without seaming the ribs, and the installation is safer.
- Roof panel and clip seat adopt pre-gluing technology to better ensure the air tightness and water tightness of the roof system, especially to solve the problem of freezing and thawing resistance of metal roofs in cold regions in winter.
- The pre-rieveted bolt technology and the pre-punching technology of the roof panel achieve a better assembly installation effect, and the construction is more accurate and efficient.
- The implementation of HOOGOSENS's standardization ensures the high quality and adaptability of the roof system and improves the installation efficiency.



### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TCT/TPT) Thickness (mm)	0.6/0.64
板型覆盖宽度 Panel Cover Width (mm)	600
肋高 Rib Height (mm)	75
最小建议坡度 Recommended Minimum Gradient	3.5%
镀铝锌钢板材质 Galvalume Steel Panel Grade	G350/AZ200
钢板表面处理 Surface Treatment for Galvalume Steel Panel	CleanSRP

HW600屋面系统预注胶锁边效果  
Effect of pre-gluing seaming roof system



HW600多种高度和长度固定座可选  
Multiple height and length clip

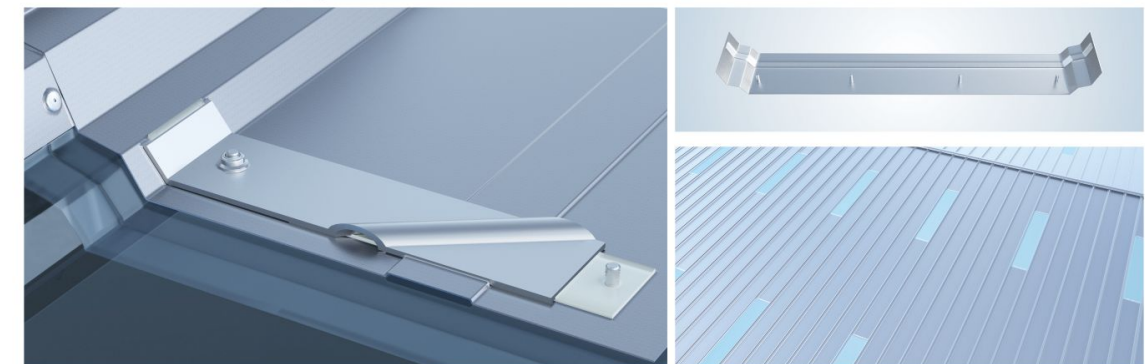
高度可选 Height:  
75mm, 85mm, 98mm, 113mm  
长度可选 Length:  
110mm, 220mm, 330mm



HW600预植螺栓檐口定位技术  
Pre-rieveted bolt eaves positioning technology



HW600预植螺栓屋面采光连接  
Pre-rieveted bolt roof skylight details



# 屋面系统 ROOF SYSTEM

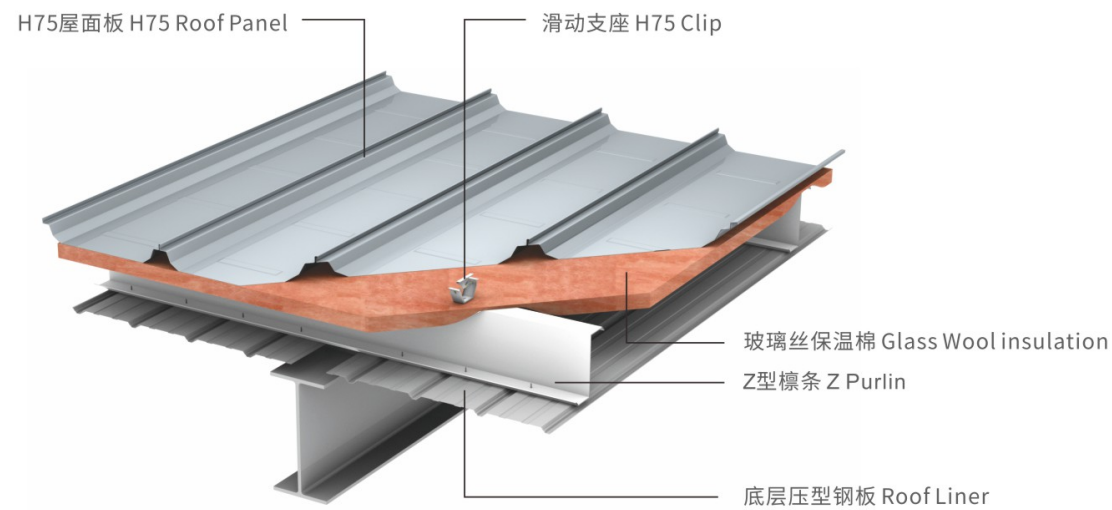
## H75 直立卷边屋面系统 H75 ROOF SYSTEM

### 产品特点与优势

- 生产过程中, 在线预注密封胶可有效预防恶劣天气下的毛细现象
- 改进的360°锁缝构造, 具有良好的自锁机制和锁缝导向构造, 提高了屋面施工的质量和安全性
- 屋面板现场压型通长布置无搭接, 减少漏水隐患
- 固定座可滑移, 更好释放热胀冷缩的应力
- 在强风拔力下, 密封性保持良好

### PRODUCT FEATURES AND ADVANTAGES

- Pre-glued construction methods warrant impeccable leak-proofing together.
- Improved 360° lock-seam mechanism has self-aligned seams that provide a more secure and safe installation.
- Allow on-site roll-forming of long sheet lengths thus reduce end-lap.
- Support clip allows movement .
- Excellent air tightness under strong wind uplift load.



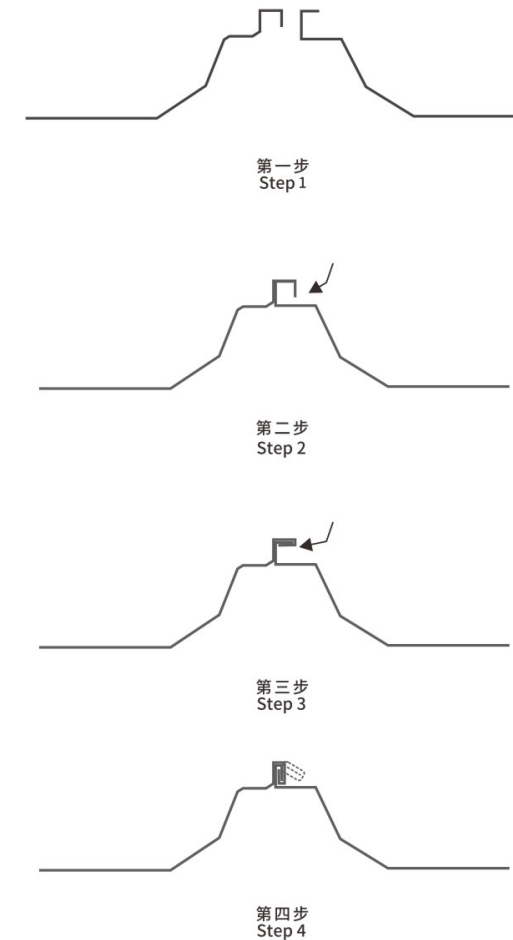
### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TCT/TPT) Thickness (mm)	0.6/0.64
板型覆盖宽度 Panel Cover Width (mm)	472
肋高 Rib Height (mm)	75
最小建议坡度 Recommended Minimum Gradient	3.5%
镀铝锌钢板材质 Galvalume Steel Panel Grade	G300/AZ165
钢板表面处理 Surface Treatment for Galvaume Steel Panel	HDP

- H75 固定座设有可滑移机构
  - 特殊设计, 大幅提高屋面热胀冷缩时的滑移能力
  - 连接片和支座间的阻力小, 滑移更顺畅
  - 采用固定座后, 屋面不被穿透, 提高了屋面的耐久性
- H75 Clip with sliding mechanism.
  - Special design greatly improves the sliding ability of the roof system during thermal movement.
  - The friction between the connecting piece and the clip base is small, and the sliding is smoother.
  - After using the clip, the roof is no penetration, which improves the durability of the roof.



H75滑动支座  
H75 Clip

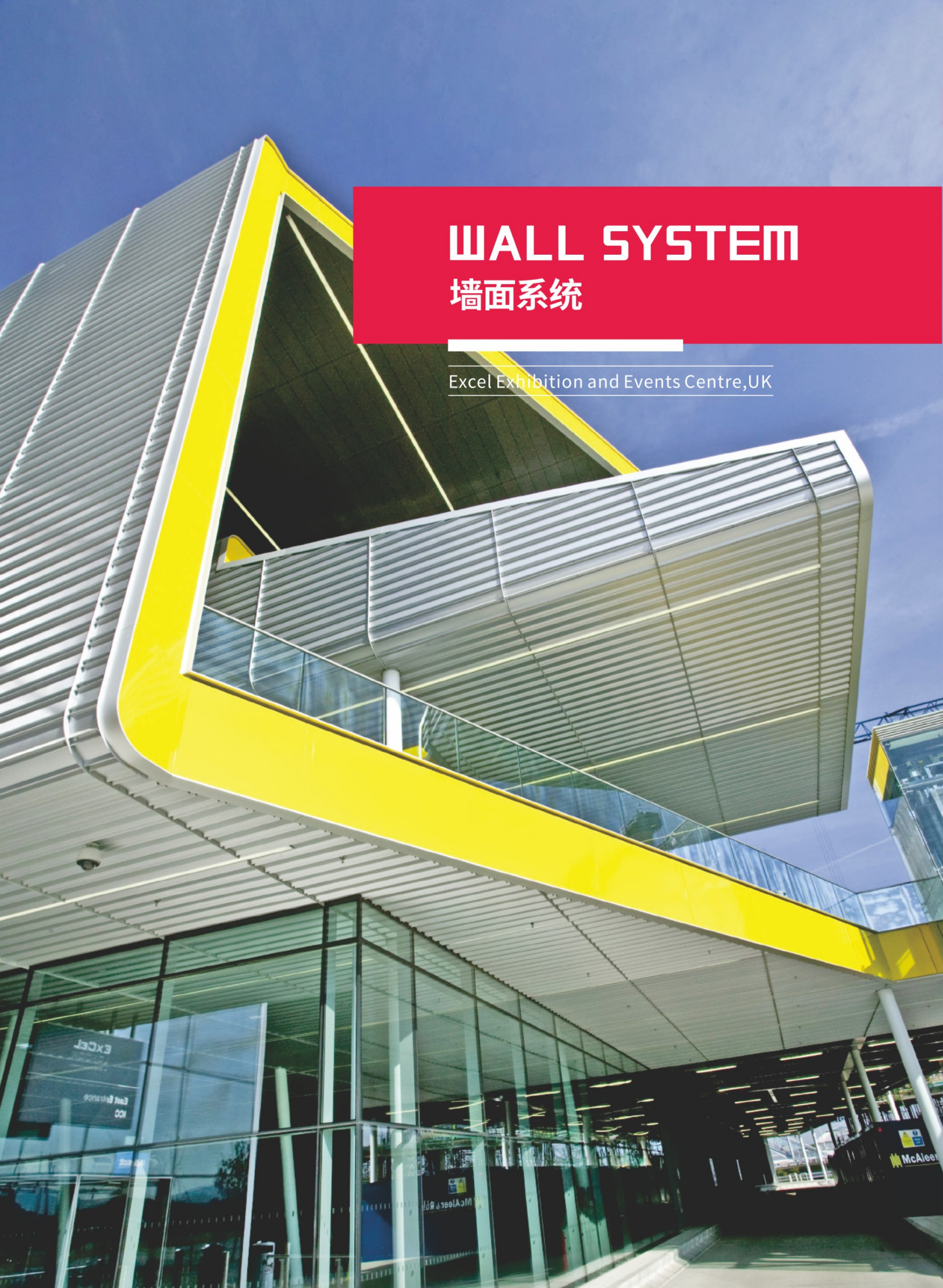


H75屋面板卷边缝合步骤图  
H75 Roof Panels Seaming Process



H75滑动支座及锁缝机  
H75 Clip&Seaming Machine





# WALL SYSTEM 墙面系统

Excel Exhibition and Events Centre, UK

## 墙面系统 WALL SYSTEM

### H65 墙面系统 H65 WALL SYSTEM

#### 产品特点与优势

- 先进的直立锁边连接方式, 无螺钉穿透, 优良的水密性及防雨雪渗漏能力, 出色的抗风性能
- 提供直板、弧形板、扇形板、异形板和多种板宽的选择, 满足各种富有个性化的建筑设计风格
- 可根据项目的需要提供现场压型服务, 避免板的纵向搭接
- 选择铝镁锰板, 使用寿命达50年以上
- 同时满足保温、隔音、吸音、防潮等使用功能

#### PRODUCT FEATURES AND ADVANTAGES

- Advance standing seam mechanism requires no screws penetration and offers outstanding weather tightness as well as excellent resistance against rain, snow seepage and wind load.
- Straight, curved, tapered and free-form panels in different widths can meet requirements of various architectural designs.
- On-site roll-forming can be provided based on the project's specific requirements thus reducing end lapping of sheets.
- Panels manufactured using aluminum, service life over 50 years.
- System can also be catered to different insulation, acoustic and vapor control requirements.



## 墙面系统 WALL SYSTEM

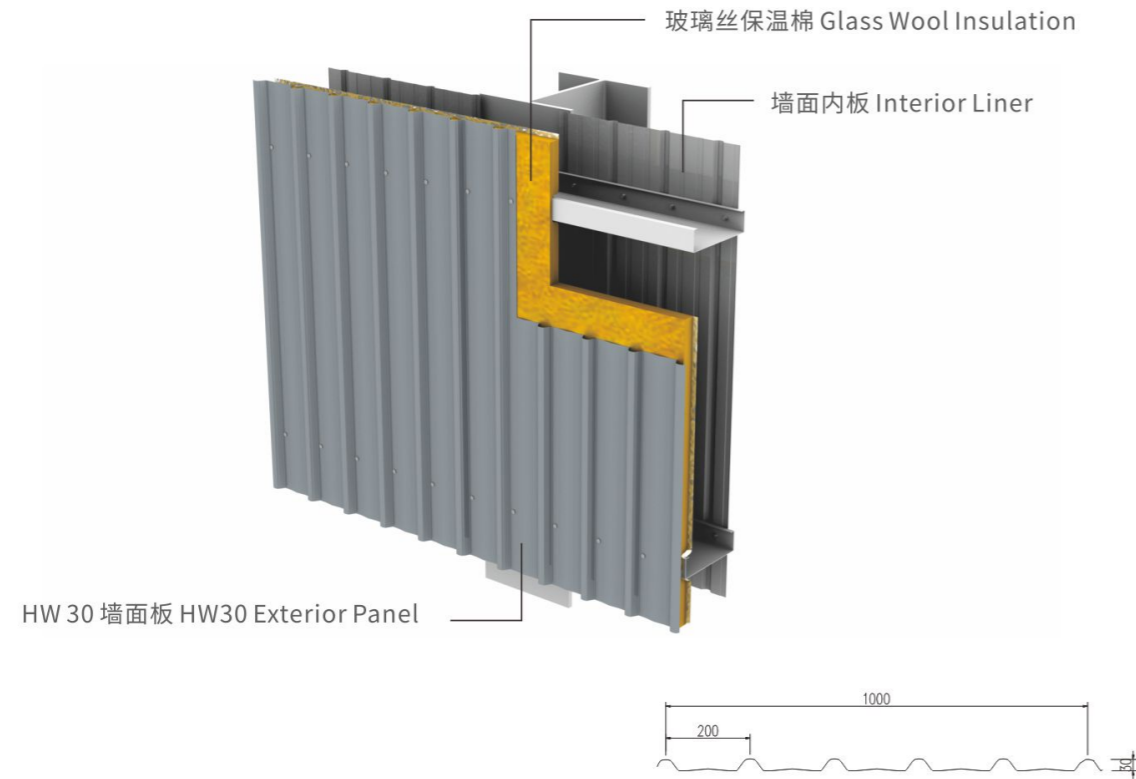
### HW30 墙面系统 HW30 WALL SYSTEM

#### 产品特点与优势

- 系统以螺钉穿透方式固定
- 独特的板肋设计避免了毛细水的渗入
- 采用霍高文专用的高效防腐密水型螺钉，与压型钢板具有同等使用寿命
- 采用具有洁面功能的洁面优益板®
- 外形靓丽，有丰富的颜色可供选择
- 具有较强的经济实用性

#### PRODUCT FEATURES AND ADVANTAGES

- The system is screw fixed.
- Unique rib design prevents water seepage.
- Use of Hoogovens recommended, and highly effective corrosion-resistant, water-tight screws. The screws have similar lifespan as that of profile steel panels.
- Clean COLORKING® with cleansing function.
- Appealing appearance with wide range of color to choose from.
- Highly economical and practical.



#### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TPT) Thickness (mm)	0.55
板型覆盖宽度 Panel Cover Width (mm)	1000
波峰肋高 Rib Height (mm)	30
镀铝锌钢板材质 Galvalume Steel Panel Grade	G350/AZ200
钢板表面处理 Surface Treatment for Galvalume Steel Panel	CleanSRP
适用范围 Scope of Applications	墙面板 Exterior Wall Panel

## 墙面系统 WALL SYSTEM

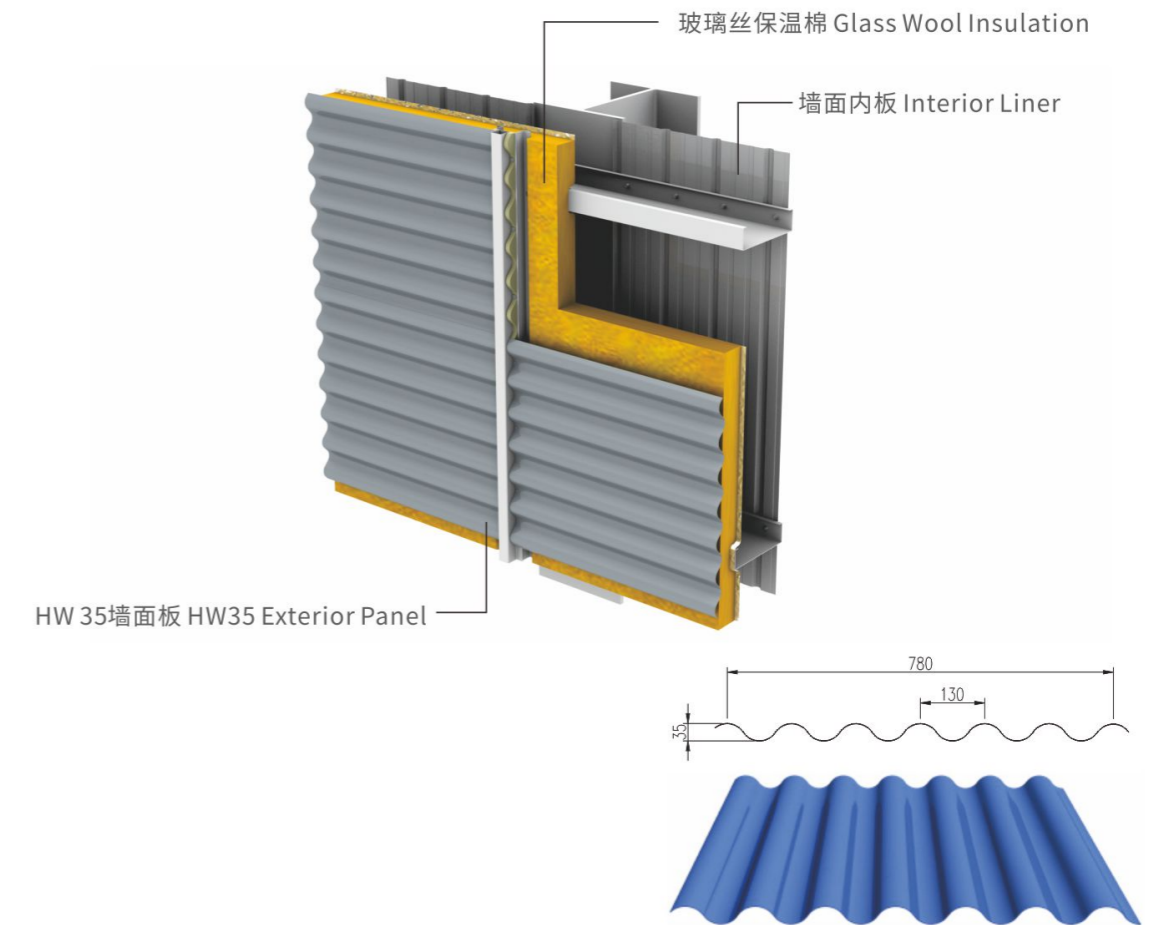
### HW35 墙面系统 HW35 WALL SYSTEM

#### 产品特点与优势

- 轻质、抗风能力强
- 具有很强的立体感与优雅的装饰效果
- 墙面布板的方式更加灵活多样
- 可与夹芯板墙面系统搭配使用
- 适用于各类现有墙面
- 采用具有洁面功能的洁面优益板®

#### PRODUCT FEATURES AND ADVANTAGES

- Lightweight, high wind load resistance.
- Distinct silhouette and elegant decorative effect.
- Orientation of the panels can be adjusted to the design.
- Can be used together with sandwich panel system.
- Suitable for all types of walls.
- Clean COLORKING® with cleansing function.



#### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TPT) Thickness (mm)	0.55
板型覆盖宽度 Panel Cover Width (mm)	780
波峰肋高 Rib Height (mm)	35
镀铝锌钢板材质 Galvalume Steel Panel Grade	G350/AZ200
钢板表面处理 Surface Treatment for Galvalume Steel Panel	CleanSRP
适用范围 Scope of Applications	墙面板 Exterior Wall Panel



# 墙面系统 WALL SYSTEM

## 恒尊板® 墙面系统 HOOCENT® INSULATED PANEL WALL SYSTEM

### 产品特点与优势

- 采用高端品质涂层钢板, 具有独特的洁面功能
- 采用高端品质岩棉, 具有出色的保温防火性能
- 插接口抗风防渗漏性能优越
- 优异的抗腐蚀性能
- 装配式安装方式
- 节能环保, 打造绿色建筑
- 卓越的耐紫外线、抗失光、色彩稳定等性能, 可使建筑物外观持久亮丽如新
- 多种颜色可供选择, 满足不同的外观需求
- 多重品牌质量保证

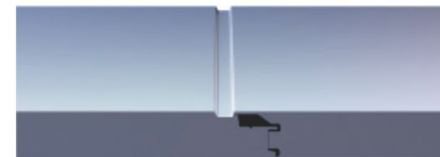
### PRODUCT FEATURES AND ADVANTAGES

- High quality coated steel plate, which possesses unique self-clean properties.
- High quality rock wool, with outstanding thermal insulating and fire-proofing properties.
- Horizontal joint has superior performance in wind and water seepage resistance.
- Outstanding anti-corrosion property.
- Assembly installation mode.
- Energy-saving and environmentally friendly for green buildings.
- Exceptional resistance to UV rays and does not color fade easily, Clean COLORKING® color stability keeps the building exterior looking like new.
- Choice of numerous colors to meet different needs.
- High quality and branded raw materials reassurance.

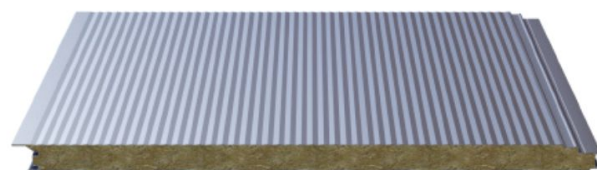
### 表面形式 SUPERFICIAL FORM



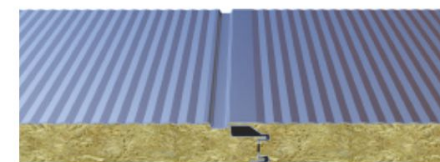
四面企口金属复合板板型  
Four-Sided Metal Insulated Panel



四面企口侧封口细节  
Joint Detail



两面企口金属复合板板型  
Two-Sided Metal Insulated Panel

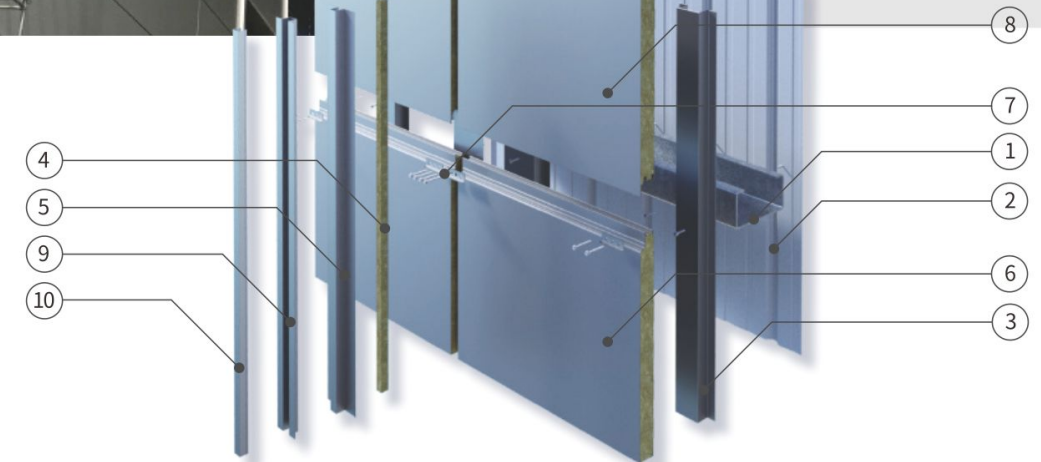


两面企口侧封口细节  
Joint Detail

### 技术参数 TECHNICAL SPECIFICATIONS

板型 Panel Type	恒尊板® HOOCENT® Sandwich Panel
面板 Exterior Panel	洁面优益板® Clean COLORKING®
钢板厚度 Thickness (mm)	外层板Exterior Skin: 小波纹\压花≥0.6, 纯平≥0.7; 内层板Interior Skin: 0.5/0.6
有效宽度 Covering Width (mm)	800/900/1000
芯材厚度 Core Thickness (mm)	50/75/100/150
企口形式 Interface Type (mm)	四面企口 Four-Sided / 两面企口 Two-Sided
面漆 Finish Coat	外层Exterior: CleanSRP 内层Interior: PE
镀层 Coating Mass	外层Exterior: AZ200 内层Interior: AZ100

### 装配式安装程序 INSTALLATION PROCEDURE



## 墙面系统 WALL SYSTEM

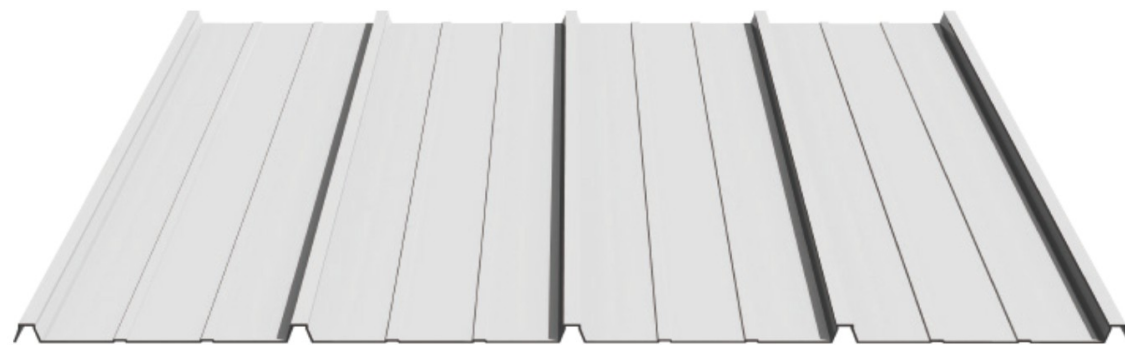
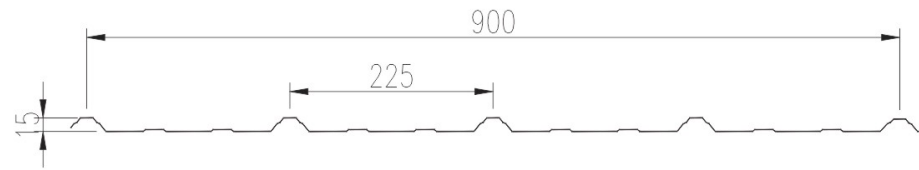
### HW900 墙面内板 HW900 LINER PANEL

#### 产品特点与优势

- 轻质、适用于室内屋面和墙面内衬板
- 安装方便
- 节点处理方式灵活多样
- 经济实惠的内装方案
- 适用于各类墙面

#### PRODUCT FEATURES AND ADVANTAGES

- Lightweight, suitable for use in roof and wall liner panel.
- Easy to install.
- Flexible and diverse interface details.
- Economical and practical interior decoration solution.
- Suitable for use on all types of wall surfaces.



#### 技术参数 TECHNICAL SPECIFICATIONS

厚度(TPT) Thickness (mm)	0.43
覆盖宽度 Panel Cover Width (mm)	900
波峰肋高 Rib Height (mm)	15
镀铝锌钢板材质 Galvalume Steel Panel Grade	G300 AZ100
钢板表面处理 Surface Treatment for Galvalume Steel Panel	PE
适用范围 Scope of Applications	墙面内板 Liner Panel

## 墙面系统 WALL SYSTEM

### 穿孔墙面系统 PERFORATED WALL SYSTEM

#### 产品特点与优势

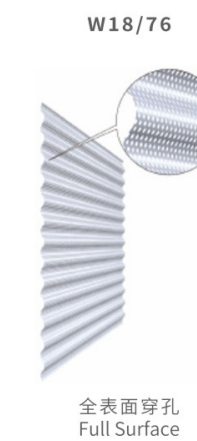
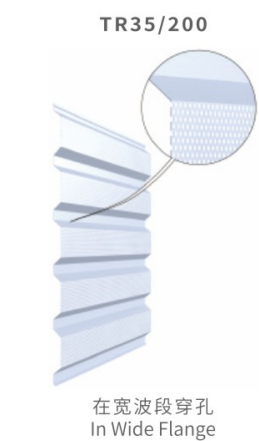
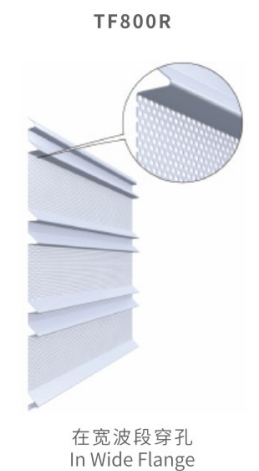
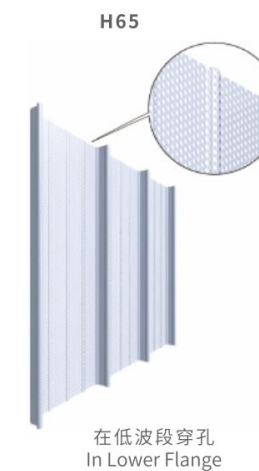
- 在透明外墙上营造遮阳效果的理想选择
- 使得墙体表面更有表现力
- 区分公共和半公共领域
- 提高墙面外形美观性的理想产品
- 经济的墙面翻新产品

#### PRODUCT FEATURES AND ADVANTAGES

- Ideal choice for creating sunshade effect with see-through exterior wall.
- Can be used for illustrative effect.
- Excellent option for partitioning.
- Ideal product for improving the optics of wall surface.
- Economic wall renovation products.



#### 霍高文穿孔板 HOOGOVENS PERFORATED WALL PANELS

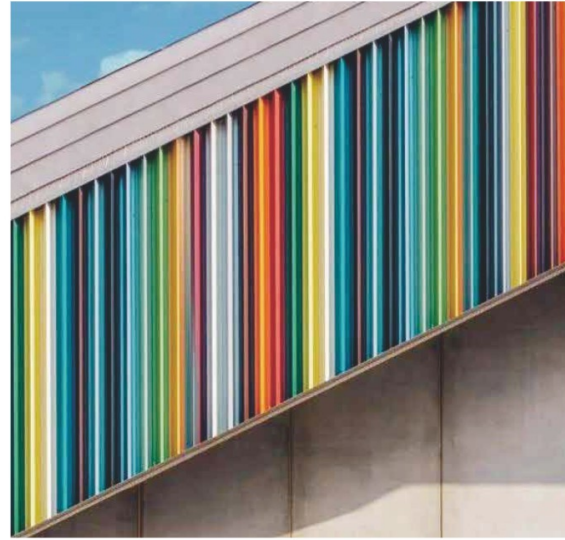


## 墙面系统 WALL SYSTEM

洁面优益板®  
Clean COLORKING®

### 产品特点与优势 PRODUCT FEATURES AND ADVANTAGES

- 洁面优益板®特殊强化聚酯面漆 (SRP) 搭配无机陶瓷颜料, 在耐光、耐热、耐溶剂和耐迁移性能表现卓越
- 洁面优益板®特殊的树脂分子结构具有良好的抵抗紫外线性能, 经久耐用, 建筑材料品质提供了可靠保障
- 洁面优益板®产品独有的双组份洁面技术, 使面漆层的表面具备极佳的亲水性, 让雨水膜可以更好的冲刷表面, 恢复钢板光泽, 洁面效果更持久
- 洁面优益板®系列采用镀层为AZ200基板, 均可为产品提供长达30年的防腐蚀保证
- 30年基材防腐不穿孔
- 20年涂层抗剥落
- 12年涂层抗褪色及粉化
- 6年自清洁功效



- The Special Reinforced Polyester topcoat (SRP) of Clean COLORKING® matched with inorganic ceramic pigment is excellent in light fastness, heat resistance, solvent resistance and migration resistance.
- Its special resin molecular structure has good UV resistance and durability, providing a reliable assurance for the quality of color-coated building materials.
- Its unique two-component cleansing technology make surface has excellent hydrophilicity, so that the rain film can better wash the surface dust and restore the luster of the steel plate.
- AZ200 Steel could provide up to 30 years of anti-corrosion guarantee for products.
- 30 years base material anti-corrosion and non perforation.
- 20 years coating anti peeling.
- 12 years coating anti fading and pulverization.
- 6 years self-cleaning effect.

### 丰富的标准颜色选择 VARIETY OF COLORS



象牙白 Ivory White



天青蓝 Azure Blue



云雾灰 Misty Grey



柏林灰 Berlin Grey



铁青灰 Iron Grey



砂砾白 Grit white



莱茵蓝 Rhein Blue



苍梧绿 Pine Green



东方红 Orient Red



冰川银 Glacier Silver

## ACCESSORIES SYSTEM 配套系统

烟台张裕工业园, 山东



## 配套系统 ACCESSORIES SYSTEM

### 采光与通风系统 SKYLIGHT & VENTILATION SYSTEM

#### 产品特点与优势

- 与屋面板相同板型的采光板, 扣合严密, 防水性强
- 霍高文铝合金一体式风机洞口, 工厂预制成型, 解决漏水隐患

#### PRODUCT FEATURES AND ADVANTAGES

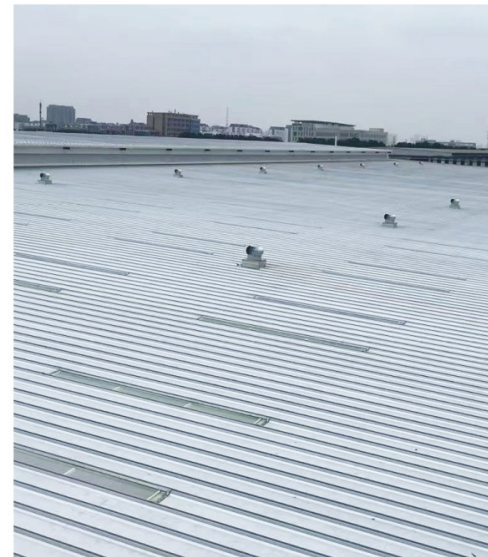
- Skylight has similar dimensions as the roof panel allowing for tight fit and excellent waterproofing.
- Hoogovens aluminum integrated ventilation opening is prefabricated at the factory to prevent risk of water leakage.



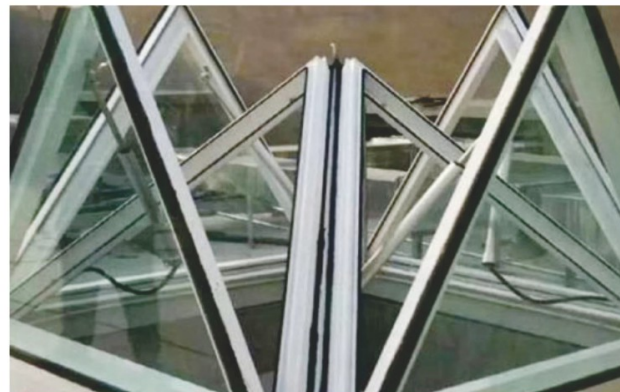
条形电动排烟玻璃天窗  
Array-type Operable Glass Skylight and Smoke Vents



通风设备  
Ventilation Equipment



H75型采光板布置  
H75 Skylight



点式电动排烟玻璃天窗  
Unitized Operable Glass Skylight and Smoke Vent



一体式风机洞口实物模型  
Model of Integrated Ventilation Opening

## 配套系统 ACCESSORIES SYSTEM

### 装饰板系统 DECORATIVE PANEL SYSTEM

霍高文建筑系统满足了在几何形状建筑面上使用各类型装饰板的需求, 让建筑师完全无拘束地使用任何板材或者装饰百叶, 而不需要破坏建筑的防水系统。

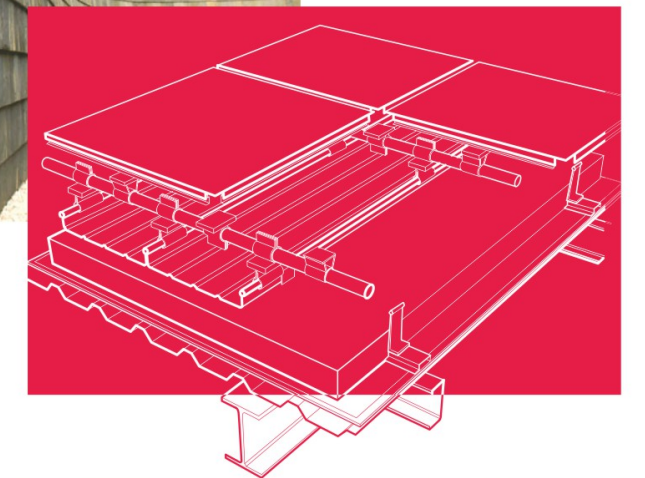
Hoogovens Building System meets all types of requirements for decorative panels used on complex building geometry. It allows architects to use without constraint any materials or decorative louvres without compromising the building's waterproofing layer.

#### 产品特点与优势

- 装饰板的连接固定, 无需在防水板上打孔
- 可灵活调节, 使装饰板和系统完美结合
- 只需清理外层板, 尽量减少了维护需求
- 可灵活地使用任何外层装饰板
- 能够满足隔声或保温性能的要求

#### PRODUCT FEATURES AND ADVANTAGES

- Decorative panels are secured without requiring punch holes on the exterior waterproofing layer.
- Decorative panels can be sized according to design intent and perfectly integrated with the roof or wall system.
- Except for the outer skin which requires occasional cleaning, maintenance is reduced to the minimum.
- Different material can be use for decorative panel.
- Able to meet any acoustic or thermal performance requirement.



专门针对霍高文直板和扇形板设计的新型霍高文屋面防坠落系统，按照BS EN795:2012第三级设备装置要求设计，用于个人防坠落保护。

霍高文防坠落系统包括一根坚固、耐久且灵活的8mm 316不锈钢索，该不锈钢索的每一端连接到屋面固定基座支架上。独特的屋面固定基座使用铝夹连接固定到霍高文®屋面板上。屋面固定基座被设计为减震器，一旦坠落发生，将变形减弱坠落的震动，并保障基座仍然安全地固定在霍高文屋面板上。根据具体工程的需要，在不锈钢索上每隔5米或7米设置中间固定基座。

工人穿上整套的安全带，用滑行锁把自己系在霍高文防坠落系统上。该滑行锁可沿着不锈钢索穿越中间基座滑动，保证了施工人员移动的灵活和安全，即使在高空作业，也可安心工作。

**产品特点与优势**

- 无需破坏屋面，保持了系统的完整性
- 安装快捷容易
- 安全、无需动手操作
- 适用于后装设备及新建建筑物
- 耐久且耐腐蚀，可与屋面保持相同的使用寿命
- 无阻碍设计
- 可同时承受多达3人的重量
- 可使用转角基座

The new Hoogovens Fall Arrest System is specifically designed for our straight and taper roof panels in accordance with the BS EN 795:2012 Type C anchor devices.

Hoogovens Fall Arrest System includes a robust, durable and flexible 8mm-thick 316 stainless steel cable which is connected to the roof system through a anchor connector that fixed the post to the standing seam. The anchor connector is a damper used to weaken shock from fall, with the base remaining fixed on the Hoogovens roof panels. The anchor connectors are installed at intervals of 5m to 7m based on the design.

Workers should wear safety harness with lanyard that is attached to the Hoogovens Fall Arrest System. Using sliding buckle to maneuver between the anchor connectors, thus ensuring his safety and mobility while working at heights.

**PRODUCT FEATURES AND ADVANTAGES**

- Maintain the integrity of the roof system without penetrations.
- Fast and easy to install.
- Safe and hands-free operation.
- Applicable for refurbishment and new buildings.
- Durable and corrosion resistant, maintaining the same service life as the roof.
- Obstacle-free design.
- Withstands the weight of 3 persons at the same time.
- Corner anchor connectors available.



霍高文绿色屋面系统满足了环境、技术和设计的高要求，这种轻质屋面系统改善了保温效果，是相当智能、环保的建筑方案。绿色屋面系统提供了广阔的绿化面积和低维护要求，该屋面系统成功地把环境效益和出色的建筑设计结合起来。绿色屋面系统提供了几乎全范围的植被覆盖——这个自然地毯的颜色还随着四季变化。低生长、自动更生且耐旱的景天属植物把沉闷的屋面变得绿意盎然。景天属植物生命力相当旺盛，它们能抵挡烟尘和抗风霜。

**产品特点与优势**

- 绿色屋面系统直接建在霍高文屋面系统上，不需要额外密封
- 铝合金表面提供了持久的底部支撑和防潮渗透保护
- 完整的模块化组件具有高度经济的模块化设计，保证了可快速、简易地安装
- 绿色屋面系统安全且易于操作
- 防滑装置保证了在倾斜或弯曲屋面上也能布置景观
- 屋面仍可作为一个避雷导体
- 所有配件都是环保并可回收
- 统一规划（即使屋面只是部分需要布置景观）
- 通过计算静力要求，霍高文能容易地实现绿色屋面系统
- 当移除屋面上的植被，霍高文屋面依然出色、迷人
- 霍高文铝合金压型板提供了高水平的保护，防止在安装绿色屋面系统配件时对屋面的损害
- 能抵抗飞溅的火花和光热辐射，符合相关安装要求和当地建筑规范

Hoogovens Green Roof System meets the high requirements of environment, technology and design. The lightweight roofing system improves the thermal insulation value, and is therefore a smart and environmentally-friendly building solution. The Green Roof System offers a wide green area with low maintenance requirements, successfully combining environmental benefits with outstanding architectural design. It also includes vegetation that almost covers entire roof – the color of this natural carpet also varies with the seasons. Low-growing, self-renewing and drought-tolerant sedum can withstand smoke, wind and frost with its robustness, turning dull roof into green landscape.

**PRODUCT FEATURES AND ADVANTAGES**

- Directly built on the Hoogovens roofing system without additional water-proofing layer.
- Provides a durable support and drainage protection with its aluminum surface.
- Complete modular components with highly economical modular design, ensuring quick and easy installation.
- Safe and easy to maintain.
- Landscape can also be placed on a sloping or curved roof with anti-slip measures.
- Roof lightning protection system can also be installed.
- All accessories are environmentally friendly and can be recycled.
- Integrated design approach (even if only part of the roof is required to be landscaped).
- Roofing system only needs to take into account the static load and drainage requirements.
- Hoogovens roof maintains its appealing surface even if the vegetation is removed.
- Hoogovens aluminum roof panel provides a high level of protection against roof damage when installing green roof components.
- Resistance to sparks and radiation, complying with relevant installation requirements and local building codes.



## 配套系统 ACCESSORIES SYSTEM

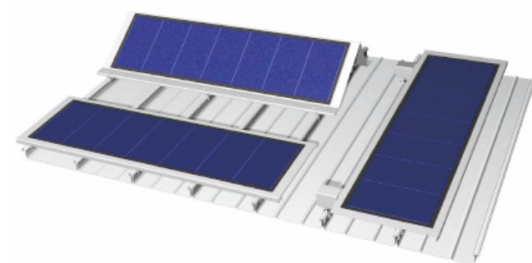
### 太阳能屋面系统 SOLAR POWER ROOF SYSTEM

#### 产品特点与优势

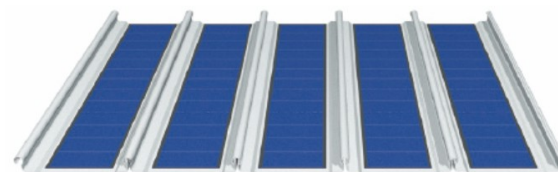
- 太阳能屋面能提供更安全、便捷、低廉的能源,具有良好的经济性和社会效益
- 金属屋面与太阳能系统具有良好的配件连接
- 不受资源分布和地域限制,可在用电处就近发电
- 获取能源花费的时间短,能源质量高
- 符合国家产业政策
- 能源具有可持续性

#### PRODUCT FEATURES AND ADVANTAGES

- Safer, more convenient and cheaper energy with good economic and social benefits.
- Robust connections between metal roofing and the solar power system.
- Independent power source, supporting power generation where required.
- High energy conversion rate and short energy conversion time.
- Compliance with national industrial policy.
- Sustainable energy.



镶嵌式光电系统  
Modular Photovoltaic System



光伏建筑一体化  
Building Attached Photovoltaic

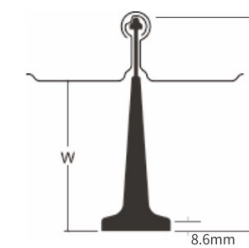
## 配套系统 ACCESSORIES SYSTEM

### 高品质配件 HIGH QUALITY ACCESSORIES

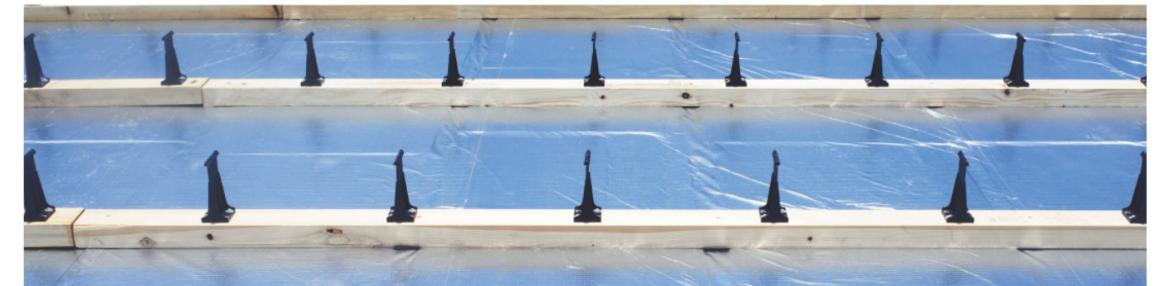
#### E型固定座 E CLIP

全新的E型固定座是一种加强塑料固定座(专利保护),通过改善H65系统的隔热、降噪和伸缩滑动性能,以进一步增强H65系统的性能。金属内衬板保证了固定座的强度,塑料则完全消除了次结构和屋面面板之间的冷热桥,并防止不同金属相斥的影响。

New E Clip is a steel reinforced polyamide (patented) support clip which further enhance the performance of H65 system by improving its insulation, noise reduction and friction reduction properties. The strength of the clip is enhanced by the steel insert; it uses polyamide exterior to eliminate the thermal bridge between secondary structure and the roof panels. It also eliminated the bi-metallic corrosion phenomenon which is a common concern when two different metals are in contact.



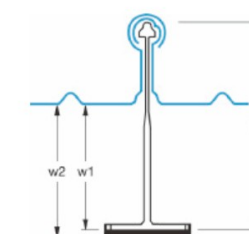
H=E型固定座总高度  
Total Height of E Clip  
W=H65板底到E型固定座底部的距离  
Distance between Underside of H65 Panel and Underside of E Clip



#### ST型固定座 ST CLIP

ST固定座是铝质固定座,其设计的目的也是固定H65屋面板,为达到隔热目的,ST固定座需和隔热垫联合使用。

The ST Clip is an aluminum clip designed to support H65 roof panel, and can be used with barrier pad for thermal insulation.



H=不带隔热垫的ST固定座高度  
Height of ST Clip without Barrier Pad  
W1=H65板底到ST固定座底部的距离  
Distance between Underside of H65 Panel and Underside of ST Clip  
W2=H65板底到带隔热垫的ST固定座的距离  
Distance between Underside of H65 Panel and Underside of ST Clip with Barrier Pad



## 配套系统 ACCESSORIES SYSTEM

### 高品质配件 HIGH QUALITY ACCESSORIES

#### 高品质紧固件

- 根据使用部位选择恰当的螺钉规格型号及材质
- 特定的不锈钢限位螺钉
- 螺钉表面均有高防腐性能处理工艺
- 满足澳大利亚AS3566 Class 3标准
- 不会因电位差而引起电化学腐蚀

#### HIGH QUALITY FASTENERS

- Different application meets different screws grade.
- Specific stainless steel limit screws.
- Surface of screw with high anti-corrosion treatment.
- Meets Australian AS3566 Class 3 standard.
- No electrochemical corrosion caused by potential difference.



- ← EPDM防水垫片/EPDM Water Proof Washer
- ← 高绑 HiGrip®/HiGrip® Threads
- ← 刻力封涂层Climaseal®/Climaseal® Coating
- ← 螺杆保护段ShankGuard®/ShankGuard® Protection

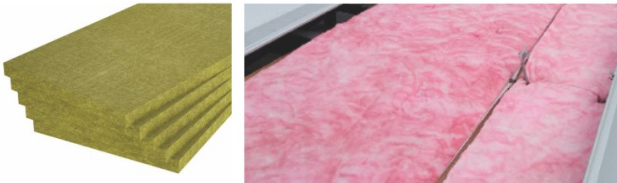
#### 高品质耐候胶

#### HIGH QUALITY WEATHER PROOFING SEALANT



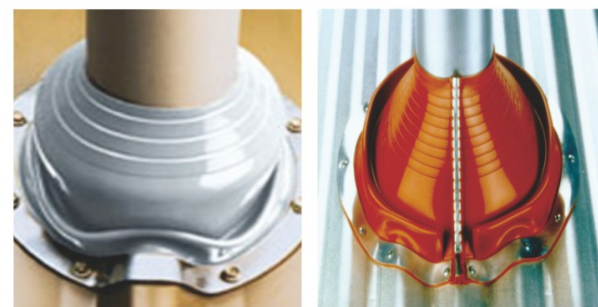
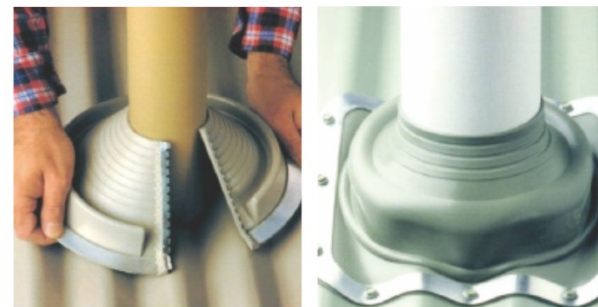
#### 高品质保温棉

#### HIGH QUALITY INSULATION



#### 高品质柔性密封收边(配套金属屋面)

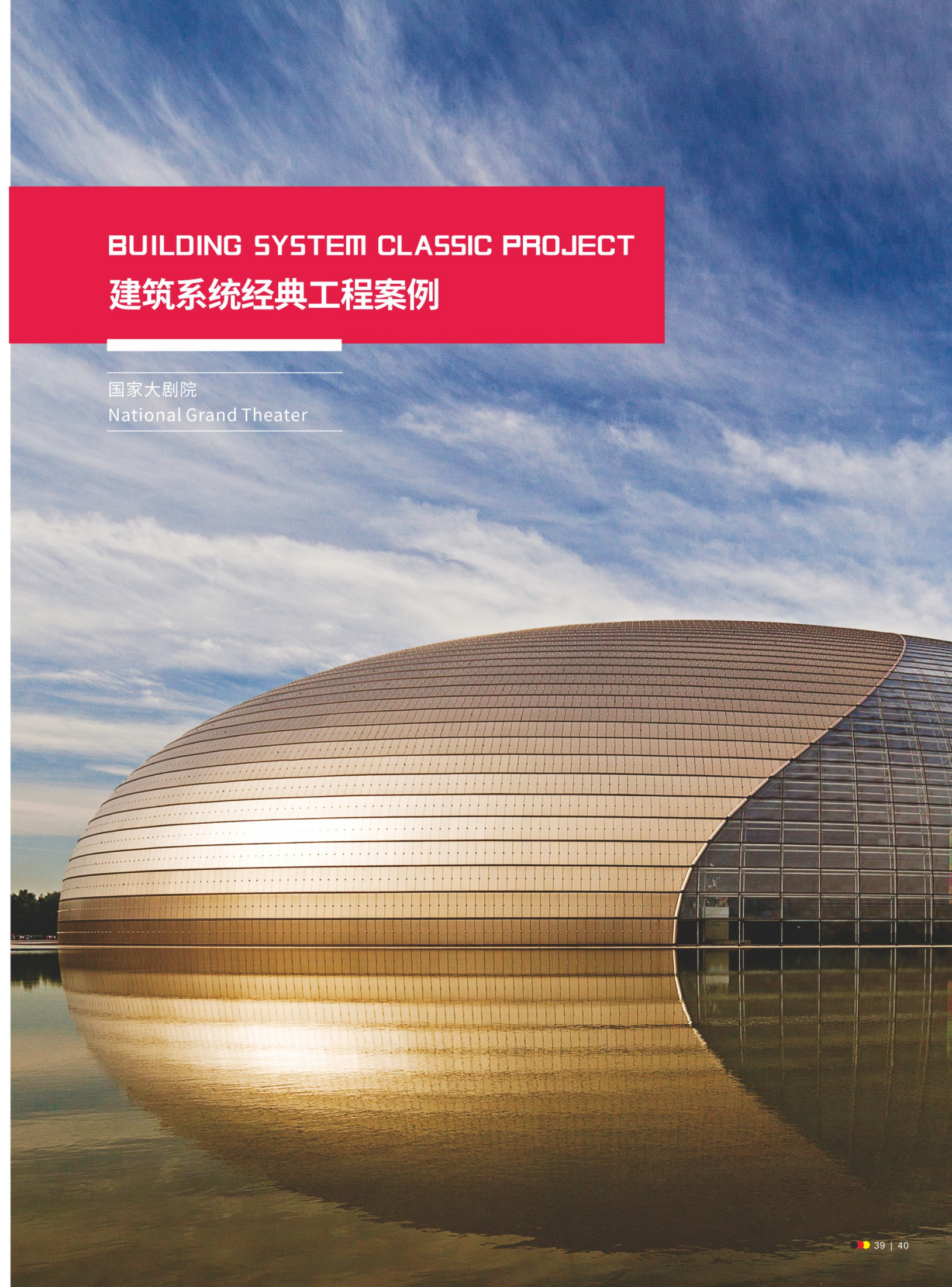
#### HIGH QUALITY FLEXIBLE FLASHING (FOR METAL ROOF)

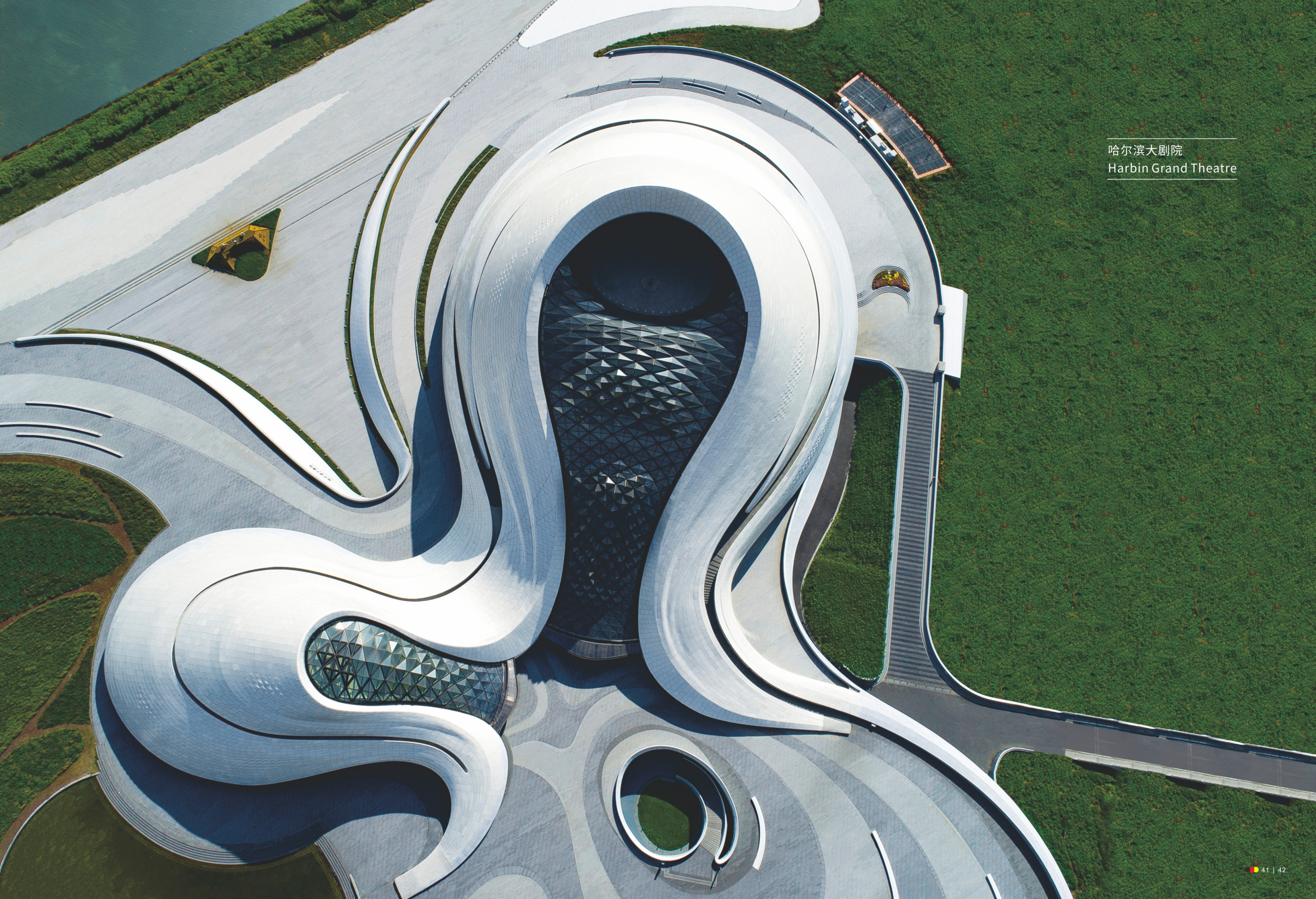


## BUILDING SYSTEM CLASSIC PROJECT

## 建筑系统经典工程案例

国家大剧院  
National Grand Theater





哈尔滨大剧院  
Harbin Grand Theatre



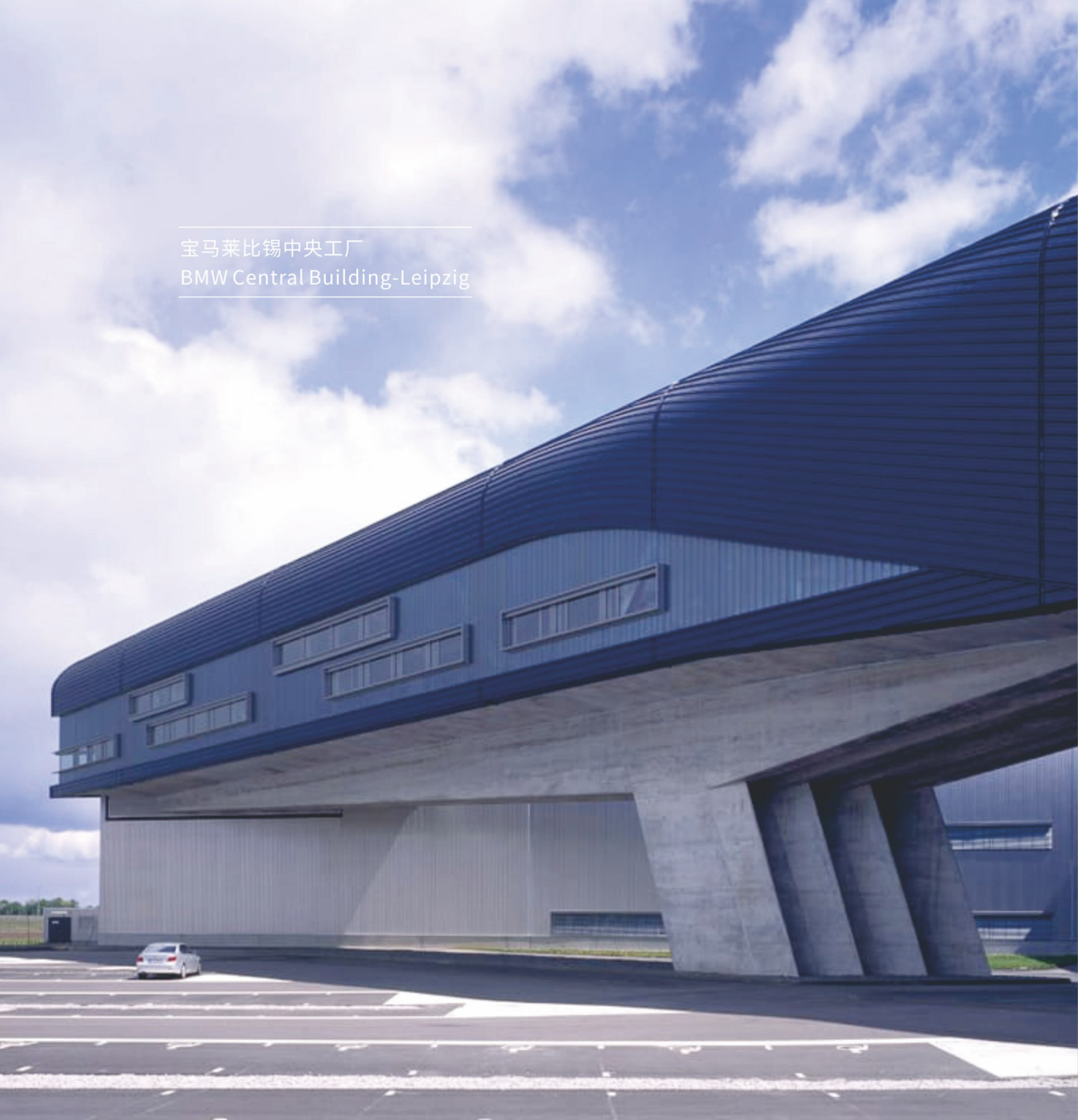
上海世博演艺中心  
Mercedes-Benz Arena



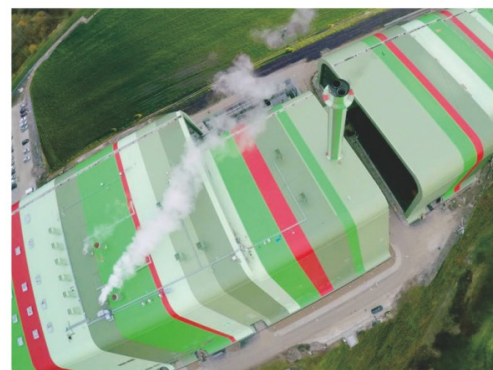
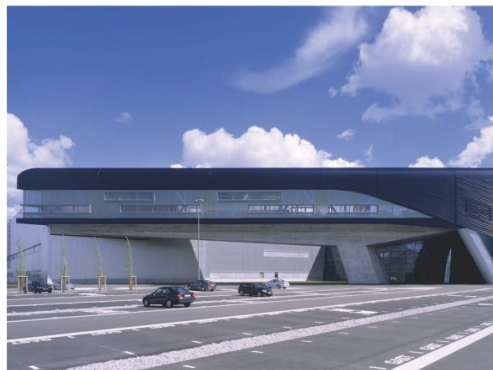
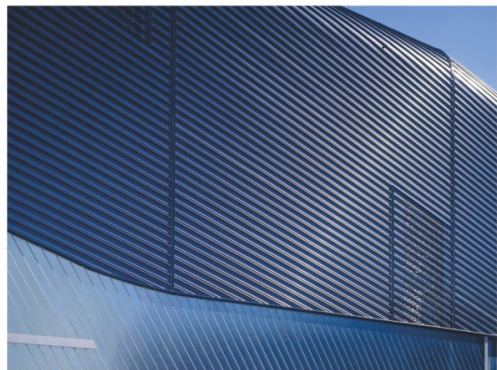
烟台张裕工业园  
Changyu Industrial Park



宝马莱比锡中央工厂  
BMW Central Building-Leipzig



克拉科夫垃圾焚烧厂  
Mullverbrennungsanlage-Krakau



工业建筑 Industrial Building

华为苏州研发中心  
Huawei Suzhou R&D Center



广州李坑垃圾焚烧厂  
Guangzhou Likeng Waste Incineration Plant



武汉国家存储器  
Wuhan National Memory Project



建筑系统工程案例 BUILDING SYSTEM PROJECT REFERENCES

工业建筑 Industrial Building

天津朝亚数据中心  
Chayora (Tianjin) Data Center



空客A320天津总装线厂房工程  
Airbus A320 Tianjin Assembly Line Plant



# 建筑系统工程案例 BUILDING SYSTEM PROJECT REFERENCES

## 工业建筑 Industrial Building

比亚迪抚州新能源汽车零部件产业园项目  
BYD Fuzhou New Energy Vehicle Parts Industrial Park Project



华为乌兰察布数据中心  
Huawei Ulanqab Data Center

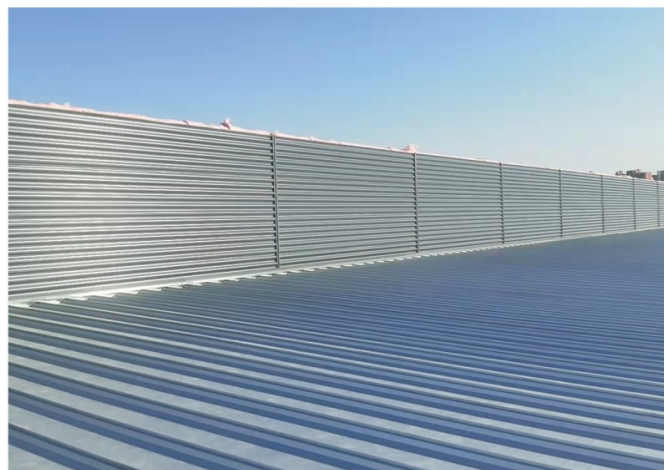


山东济宁泰丰智能工业园  
Shandong Taifeng International S&T Industrial Park



工业建筑 Industrial Building

小洋人工业新城项目  
Xiaoyangren New Industry Park Project



荆州市亿昌兴家电、汽车零部件智能制造中心  
Jingzhou Yichangxing Appliance&Auto Parts Intelligent Manufacturing Center



工业建筑 Industrial Building

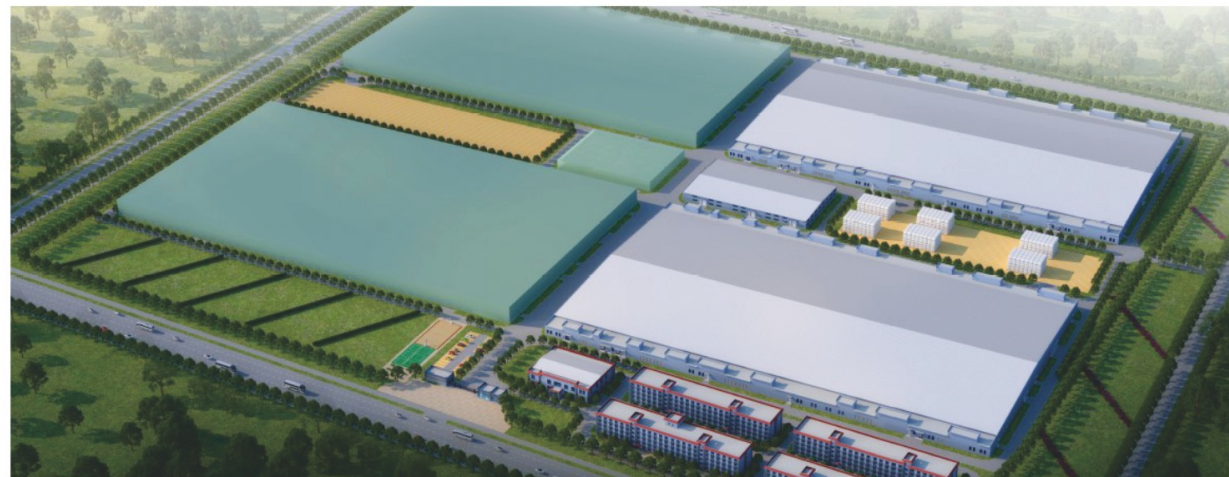
金宝乐器夷陵音乐小镇钢琴车间  
Piano Music Town Of Jinbao Musical Instrument Yiling, Hubei



河南风尚电气配电柜建设项目  
Henan Fengshang Electric Distribution Cabinet Project



新疆睿格纺织60万锭纺纱项目  
Xinjiang Ruige Textile 600,000 spindle spinning project



山东美晨厂房及库房围护系统  
Shandong Meichen Plant and Warehouse Envelope System



北京市南水北调配套工程黄村水厂工程  
Huangcun Waterworks Project of Beijing South-to-North Water Transfer Project



上海微小卫星工程中心  
Shanghai Engineering Center for Microsatellites



衡益医疗器械产研基地  
Hengyi Medical Device R&D Site

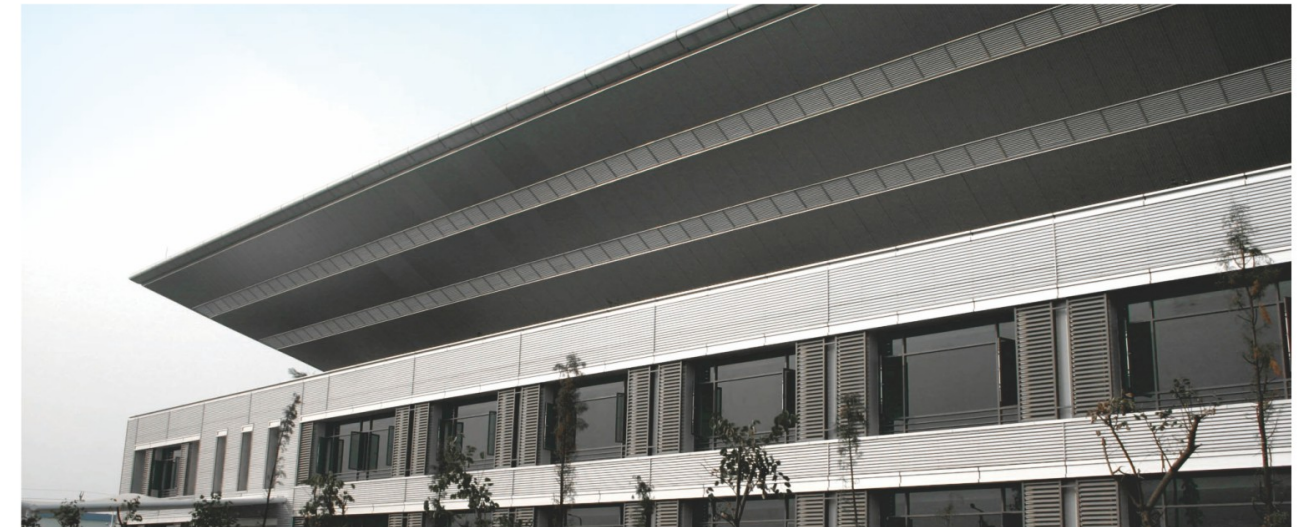


工业建筑 Industrial Building

广船国际中山船舶工业基地  
Guangzhou Shipyard (Zhongshan) Industrial Base



广东邮政物流中心  
Guangdong Post Logistics Center



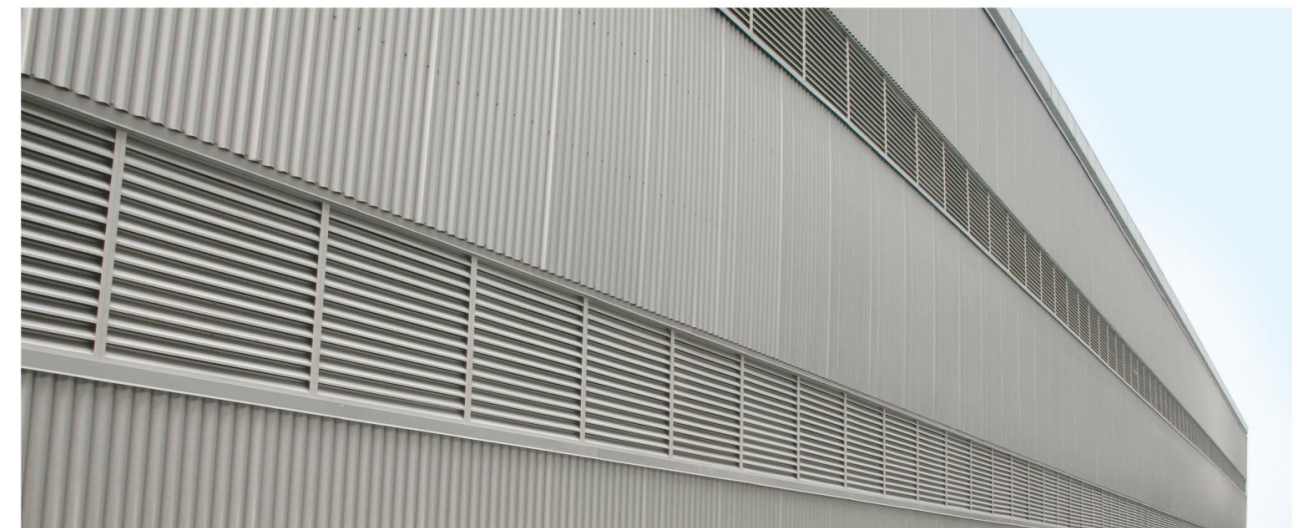
上海捷强物流中心  
Shanghai Jieqiang Logistics Center



重庆参天科瑞制药公司  
Chongqing Santen Pharmaceutical



鹏泰纺织服饰制造项目  
Pengtai Textile Clothing  
Manufacturing Project



工业建筑 Industrial Building

黑龙江益农生物科技育种项目  
Heilongjiang Yinong Biotechnology Breeding Project



陕西闽锐玻璃制造  
Shanxi Minrui Glass Manufacturing



新疆安靠环保滤芯器生产线项目  
Xinjiang SRR Filter Element Production Line Project



惠州亮晴高科技项目  
Huizhou Liangqing High-tech Project



山东烟台格润富德乳制品加工厂项目  
Gerun Fude Dairy Processing Plant Project



成都厚普国际氢能产业集群  
Chengdu Houpu International Hydrogen Energy Industrial Cluster

交通枢纽 Transportation Hub

孟加拉达卡国际机场  
Dhaka Hazrat Shahjalal International Airport



南京禄口国际机场  
Nanjing Lukou International Airport



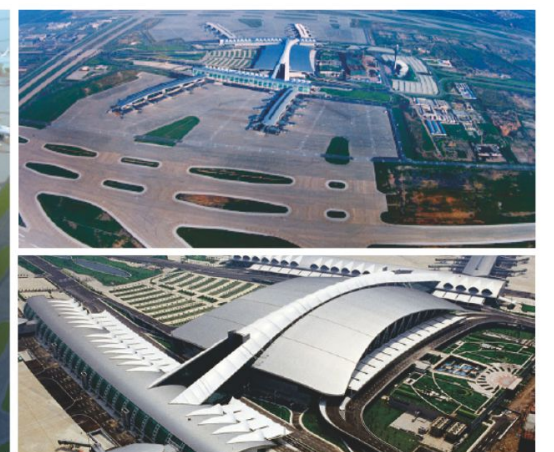
重庆江北国际机场  
Chongqing Jiangbei International Airport



宁波栎社机场  
Ningbo Lishe International Airport



广州白云国际机场  
Guangzhou Baiyun International Airport





利比亚罗伯茨国际机场  
Liberia Roberts International Airport



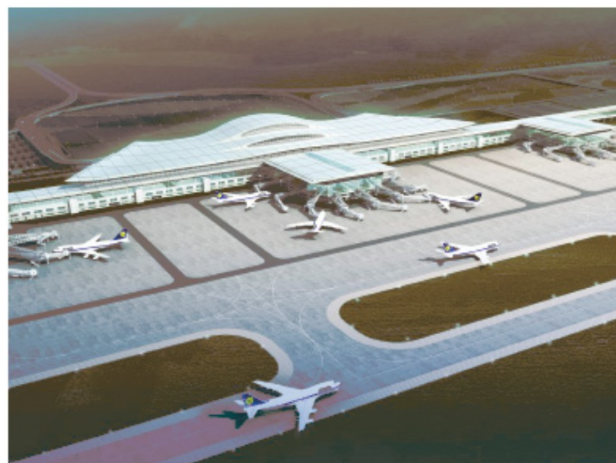
毛里求斯普莱桑斯国际机场  
Mauritius Sir Seewoosagur Ramgoolam  
International Airport



广西北海机场  
Guangxi Beihai Airport



山东临沂机场  
Shandong Linyi Airport



长沙黄花国际机场  
Changsha Huanghua International  
Airport



呼和浩特白塔机场  
Hohhot Baita International  
Airport



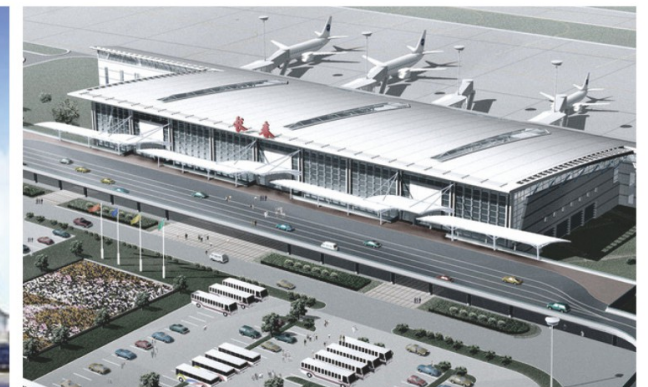
郑州新郑国际机场  
Zhengzhou Xinzheng International Airport



江苏连云港机场  
Jiangsu Lianyungang Airport



重庆巫山机场  
Chongqing Wushan Airport



长春龙家堡机场  
Changchun Longjia International Airport



长沙南站  
Changsha South Railway Station

交通枢纽 Transportation Hub



张家界火车站  
Zhangjiajie Railway Station



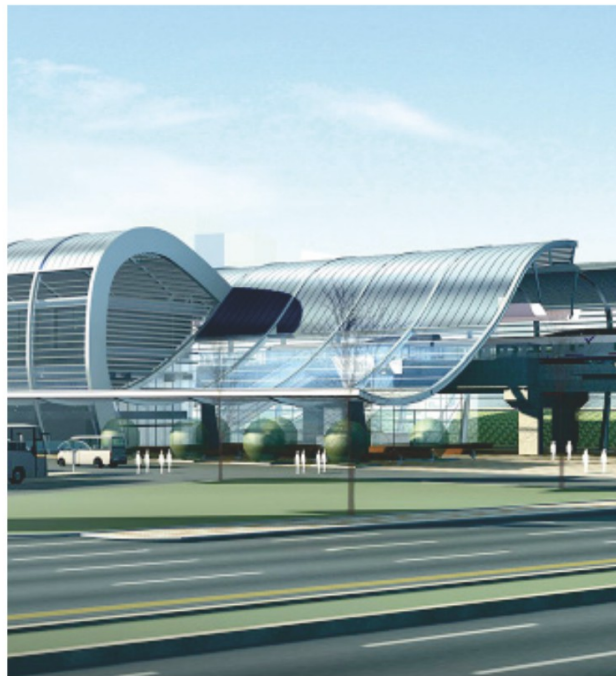
深圳福田客运枢纽中心  
Shenzhen Futian Passenger Transportation Center



西安北站  
Xi'an North Railway Station



拉萨火车站  
Lhasa Railway Station

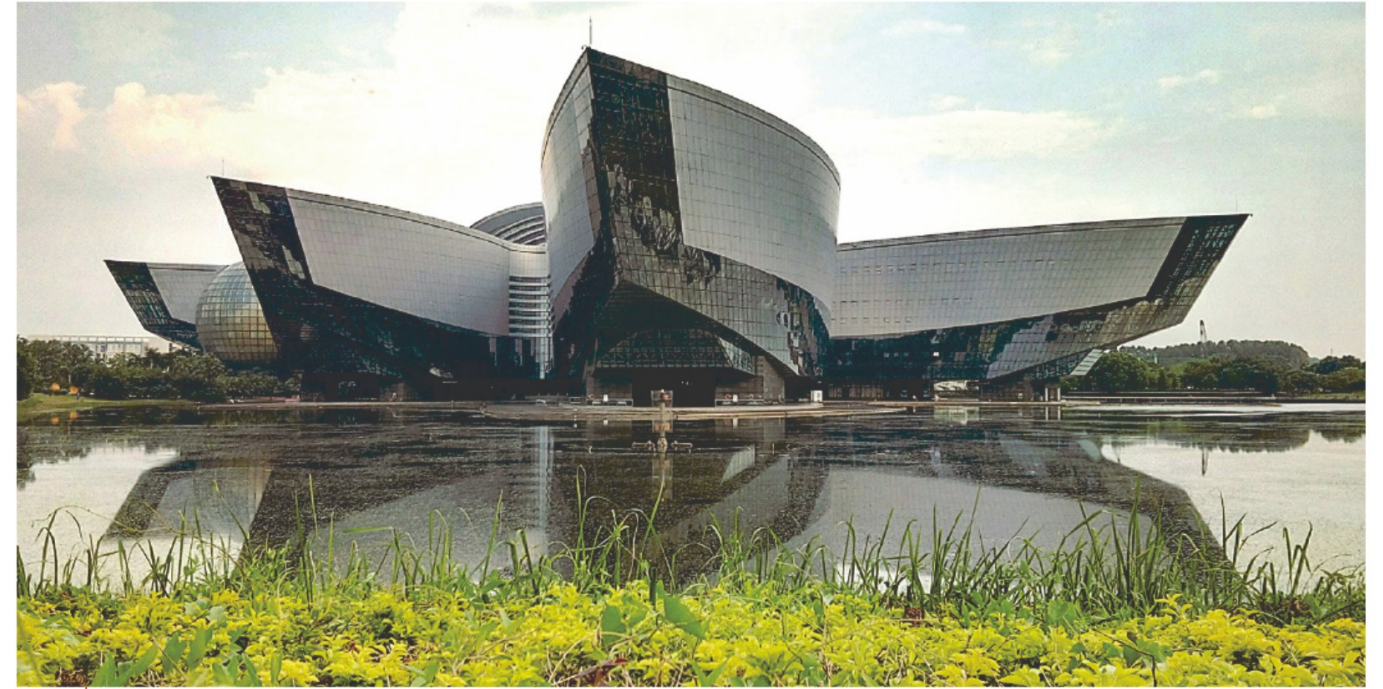


广州地铁四号线  
Guangzhou Metro Line 4



广州地铁五号线  
Guangzhou Metro Line 5

文化会展 Cultural & Exhibition Center



广东科学中心  
Guangdong Science Center

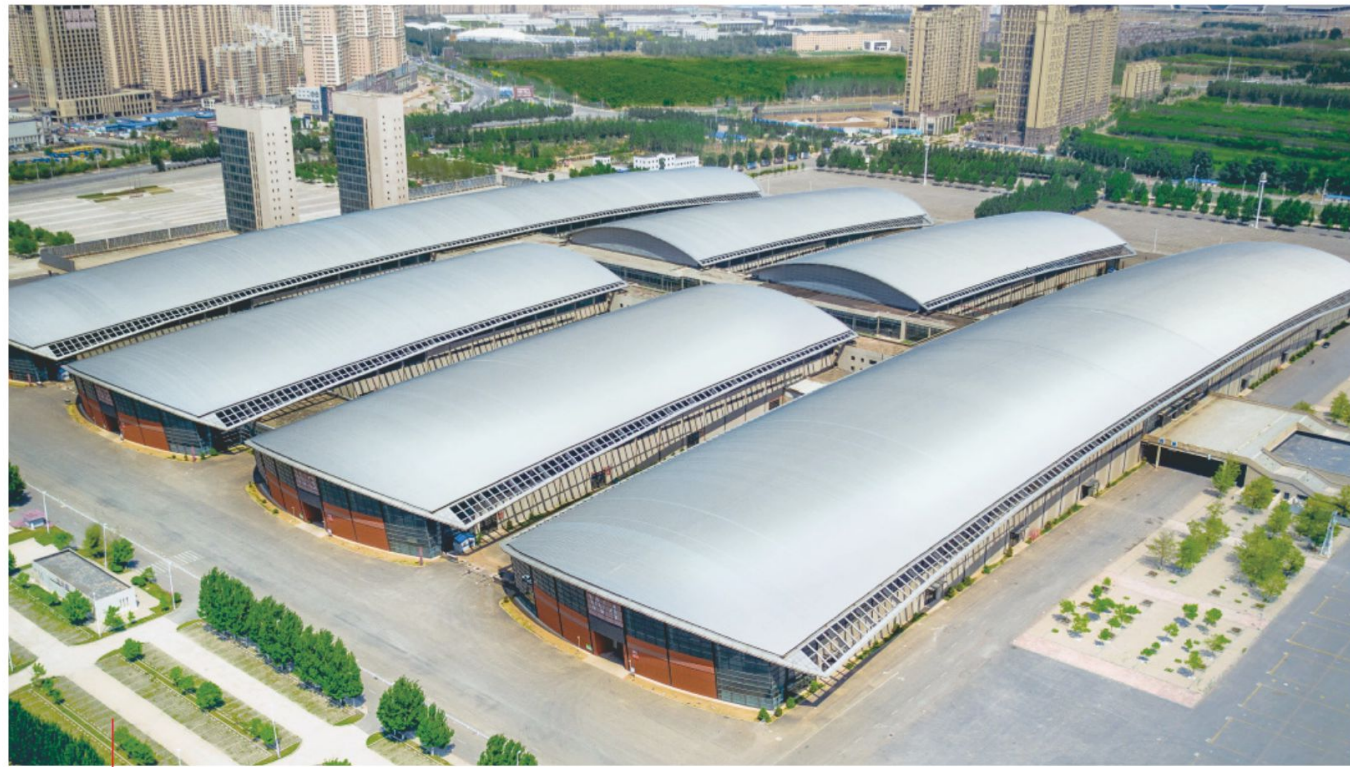
南京会展中心  
Nanjing International Exhibition Center



海南生态智慧新城国际学校  
Hainan Ecological Wisdom New City International School



文化会展 Cultural & Exhibition Center



沈阳国际会展中心  
Shenyang International Exhibition Center

沈阳新世界展览中心  
Shenyang New World Center



上海梦中心  
Shanghai Dream Center



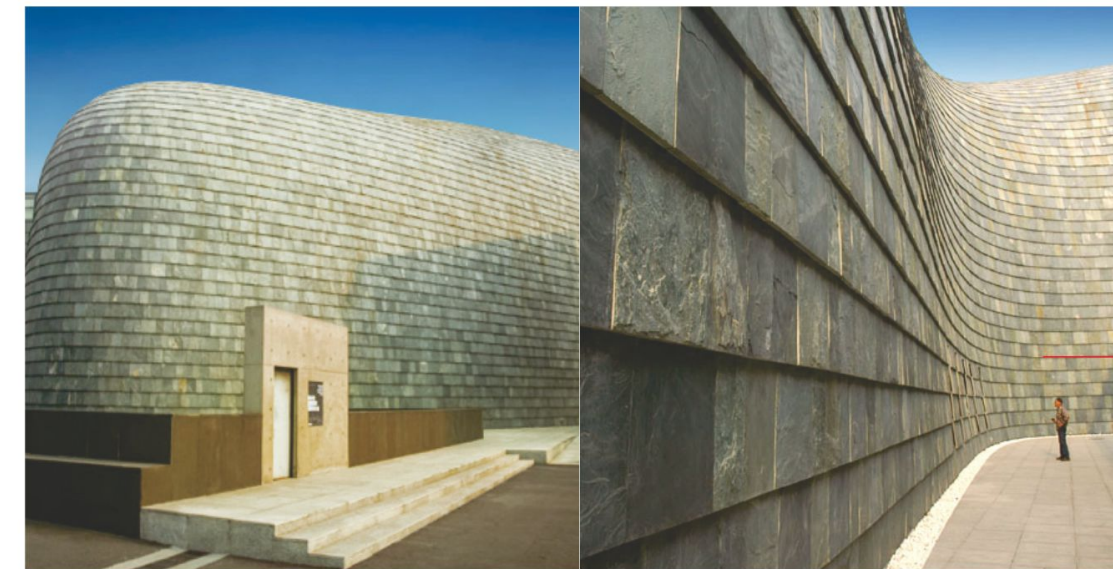
天津梅江会展中心  
Mei Jiang Convention and Exhibition Center



北京理工大学良乡校区文化体育中心  
Institute of Technology Liangxiang Campus



中央美术学院美术馆  
CAFA Arts Museum

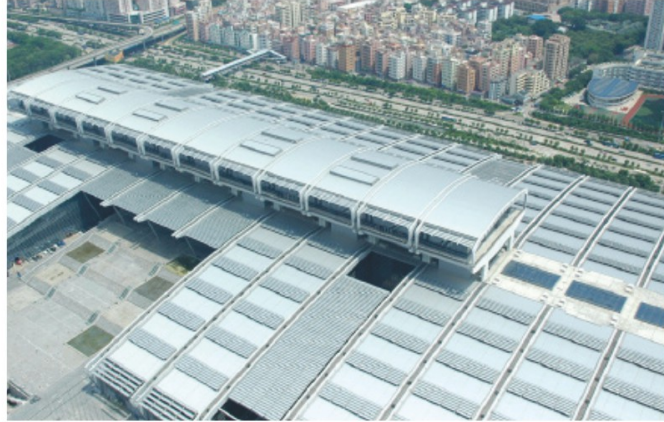


文化会展 Cultural & Exhibition Center

苏州国际博览中心  
Suzhou International Expo Center



深圳会展中心  
Shenzhen Convention & Exhibition Center



蚌埠会展中心  
Bengbu Convention and Exhibition Center



烟台国际博览中心  
Yantai International Expo Center



北京环球影城度假区  
Universal Beijing Resort



上海迪士尼度假区  
Shanghai Disney Resort



大连国际会议中心  
Dalian International Conference Center



无锡新区科技交流中心  
Wuxi New District Science and Technology Exchange Center

梅县文体中心  
Meixian Stylistic Center



南京艺术学院美术馆  
Art Museum of Nanjing University of The Arts



西安大明宫国家遗址公园游客服务中心  
Tourist Service Center of Xi'an Daming Palace National Heritage Park



体育场馆 Stadium



国家体育馆  
National Indoor Stadium



南京奥林匹克体育中心游泳馆及体育场  
Natatorium and Stadium of  
Nanjing Olympic Sports Center



广州亚运城综合体育馆  
Asian Games Town  
Gymnasium



杭州奥林匹克体育中心  
Hangzhou Olympic Center  
Stadium



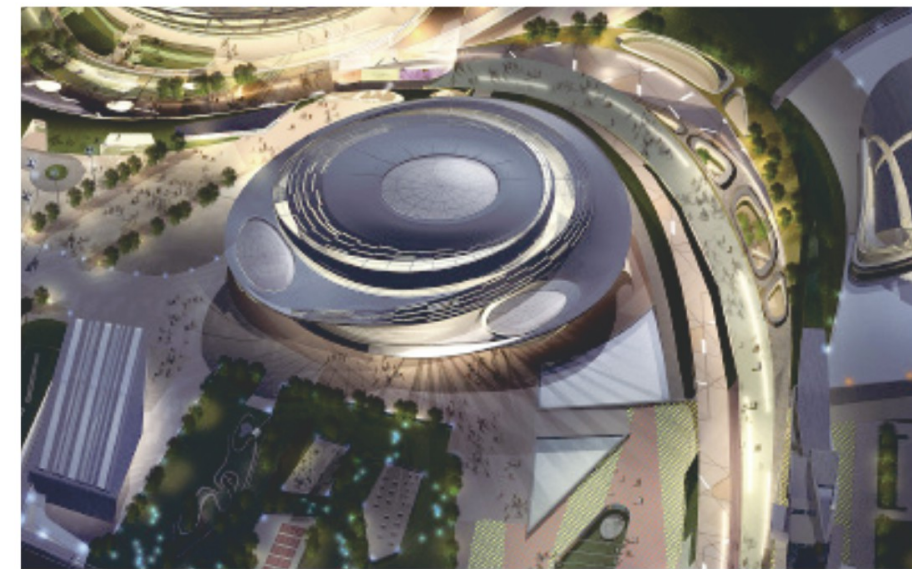
上海东方体育中心  
Shanghai Oriental Sports Center



体育场馆 Stadium



大连体育中心  
Dalian Sports Center



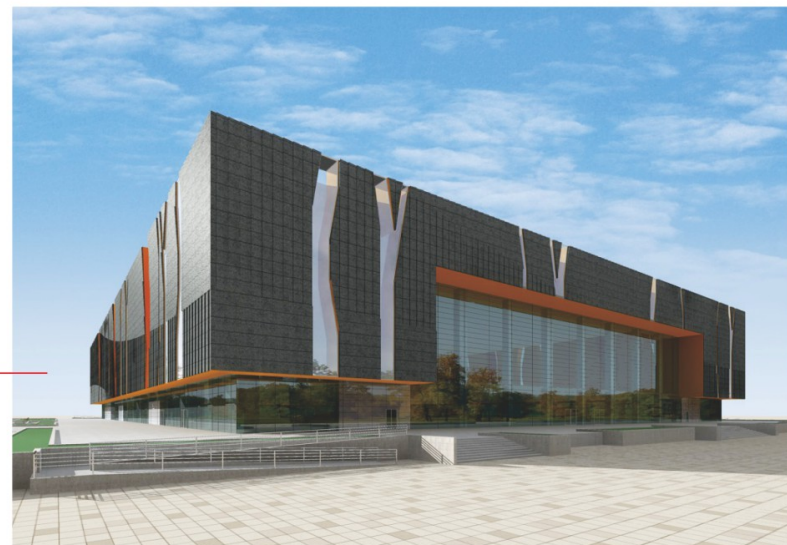
葫芦岛体育中心  
Huludao Sports Center



中国援塞内加尔竞技摔跤场  
Senegal Wrestling Stadium



北京大学体育馆  
Peking University Gymnasium



克拉玛依体育馆  
Karamay Gymnasium



北京理工大学体育馆  
Beijing Institute of Technology  
Stadium

体育场馆 Stadium



佛山岭南明珠体育馆  
Lingnan Pearl Gymnasium in Foshan



沈阳奥体中心体育场  
Shenyang Olympic Sports Center



上海旗忠网球馆  
Shanghai Qi Zhong Tennis Hall



澳门大学运动场  
Macau University Sports Ground



镇江体育中心  
Zhenjiang Sports Center

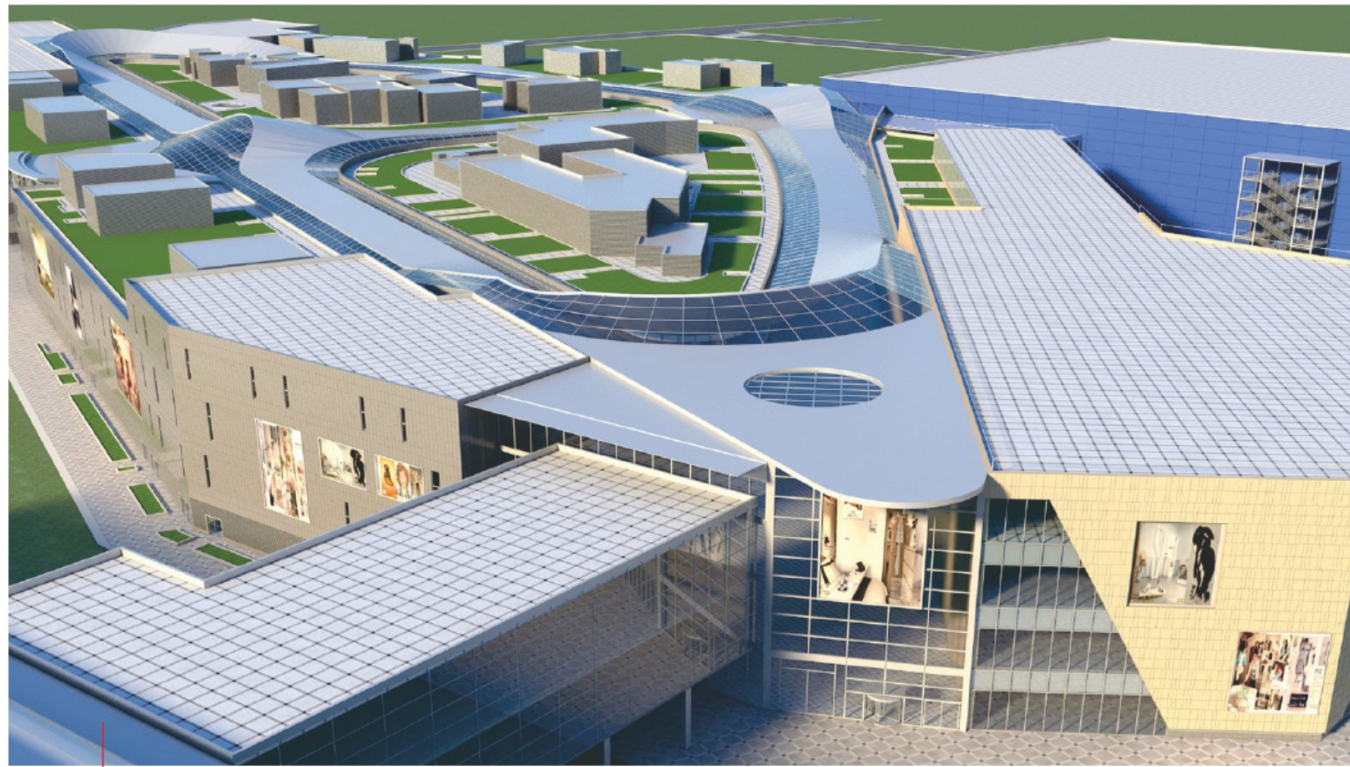


沈阳奥林匹克体育中心游泳馆及网球中心  
Natatorium and Tennis Center of  
Shenyang Olympic Sports Center

胶州体育中心  
Jiaozhou Sports Center



商业中心 Business Center



北京宜家购物中心  
Beijing IKEA Shopping Center

大连恒隆广场  
Dalian Olympia 66



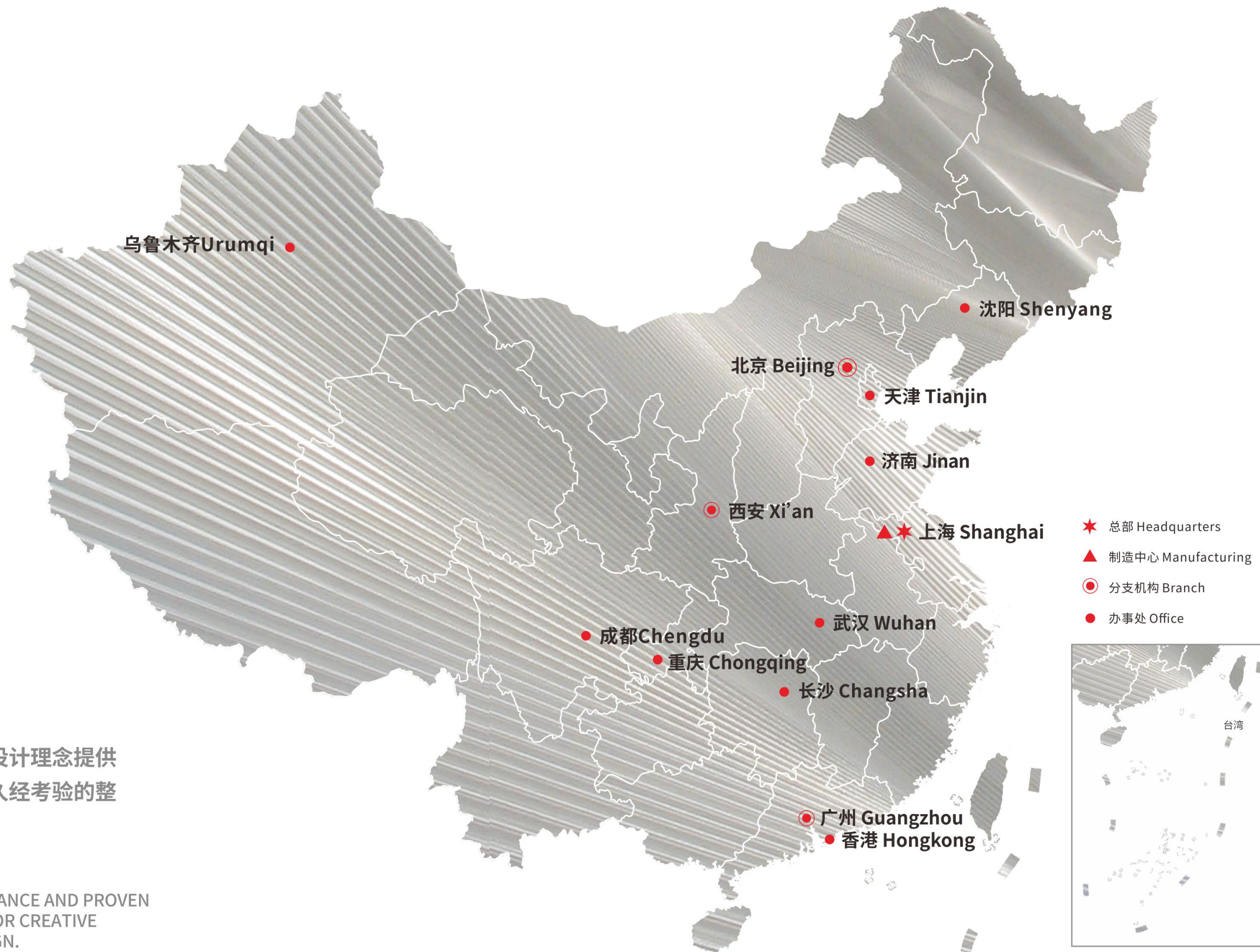
上海东方渔人码头  
Shanghai Oriental Fisherman's Wharf



广东乐从钢铁世界  
Guangdong Lecong Steel World



广州增城誉山国际  
Guangzhou Zengcheng Yushan International



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