

Robertson meTecno

METAL WALL & ROOF SYSTEMS

Robertson
A Kanji Group Company



Australia : <https://bondor.com.au/>
Indonesia : <https://bondor.co.id/products/eps-panel.html>



Italy: <http://metecnoitalia.it/en/index.php>
Thailand : <http://www.metecno.co.th/index.php/en/>



Australia : <https://www.metroll.com.au/>



Hong Kong: <http://www.robertson.com.hk/frameset.htm>
Indonesia: <http://www.ptrobertsonfastbuild.com/>



罗保盛, 点亮智慧城市
H.H.Robertson®, Light Up The Smart City

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Robertson
BUILDING PRODUCTS AND SERVICES
罗保盛建筑产品及服务



ROBERTSON BUILDING PRODUCTS AND SERVICES

罗保盛
建筑产品及服务

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罗保盛，点亮智慧城市...

Robertson

罗保盛集团于1906年在美国成立，主要从事建筑新型节能材料的生产研发与应用，被称为节能建筑的鼻祖！上世纪90年代罗保盛集团重组，美国部分改为盛亚公司，亚太部分被Kanji Group收购，成立澳大利亚罗保盛，集团总部设立在新加坡。

Robertson Group was established in the United States in 1906. It is mainly engaged in the research and development and application of new energy-saving materials for buildings. It is called the originator of energy-saving buildings! In the 1990's, Robertson Group was reorganized, the US part was changed to Shengya Company, and the Asia Pacific part was acquired by Kanji Group. It established Australia Robertson, Group's headquarters is located in Singapore.



2001年，罗保盛集团进入中国市场，开始在电厂领域提供高耐腐蚀金属板材，专业为客户提供最优的建筑系统解决方案。2008年起Kanji Group旗下的意大利梅泰克诺公司在中国投资建厂，分别在嘉兴和廊坊建立南北两大生产基地，总投资2000万美元，主要生产销售金属复合板，致力于新型节能建筑材料研发、应用与推广。

2019年，罗保盛集团与具有“复合板材之王”之称的意大利梅泰克诺集团统一亚洲业务，两大品牌优势进一步融合，成立了罗保盛-梅泰克诺中国集团（RMG），致力于建筑围护系统、冷库系统、工业门及其它建筑节能产品。罗保盛中国总部设立在北京。

In 2001, Robertson Group entered China and began to provide high corrosion-resistant sheet metal in the field of power plants, providing customers with the best building system solutions. In 2008, the Italian Metecno company under the Kanji Group invested

and established two production bases in Jiaxing and Langfang, with a total investment of 20 million dollars. It mainly produces and sells metal sandwich panels and is committed to the development and application of new energy-saving building materials.

In 2019, Robertson Group and the Italian Metecno Group, which is known as the King of sandwich panels, unified the Asian business. The two brands have further integrated their advantages and established the Robertson -Metecno China Group (RMG), which is dedicated to building enclosure systems, cold storage systems, industrial doors and other energy-saving products for buildings. Robertson China headquarters is located in Beijing.

100年前罗保盛在美国诞生，拥有悠久的历史...

Robertson was born in the United States 100 years ago and has a long history...

1906

开发出第一种能有效保护金属覆盖层，使其免受侵蚀的覆盖结构体系
Developed the first cover structure that effectively protects the metal coating from erosion



1918

第一家能够生产独立运行的动力通风系统的公司
The first company to produce an independently operated power ventilation system

1957

罗保盛提供建筑材料的设计、制造、供货和安装指导为一体的公司
Robertson provides design, manufacturing, supply and installation guidance for building materials



1978

研制出了世界上第一种多镶板，设计师创造出了“Robertson 外观”
Developed the first Sandwich Panel, the designer created the ‘Robertson look’

1996

罗保盛进一步扩展业务，提供屋面墙面系统全套解决方案
Robertson further expands its business and provides total solutions for building roof and wall systems



2001

罗保盛为满足市场需求，推出新产品“Robertson 珐琅板”，用于外墙装饰
In order to meet the market demand, the new product ‘Robertson Vitreous enamel panel’ was launched for exterior wall decoration

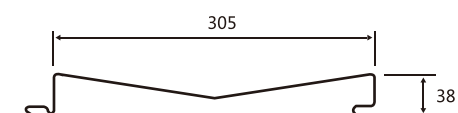
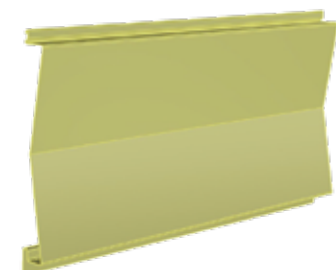
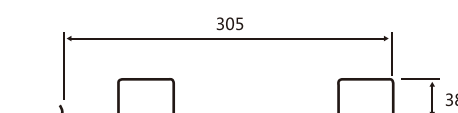
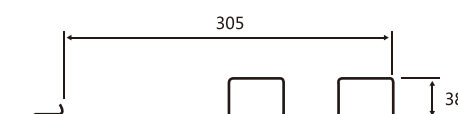
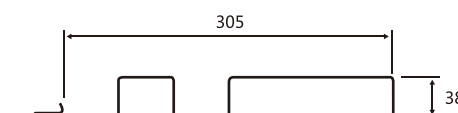
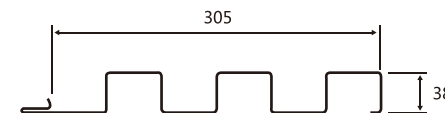
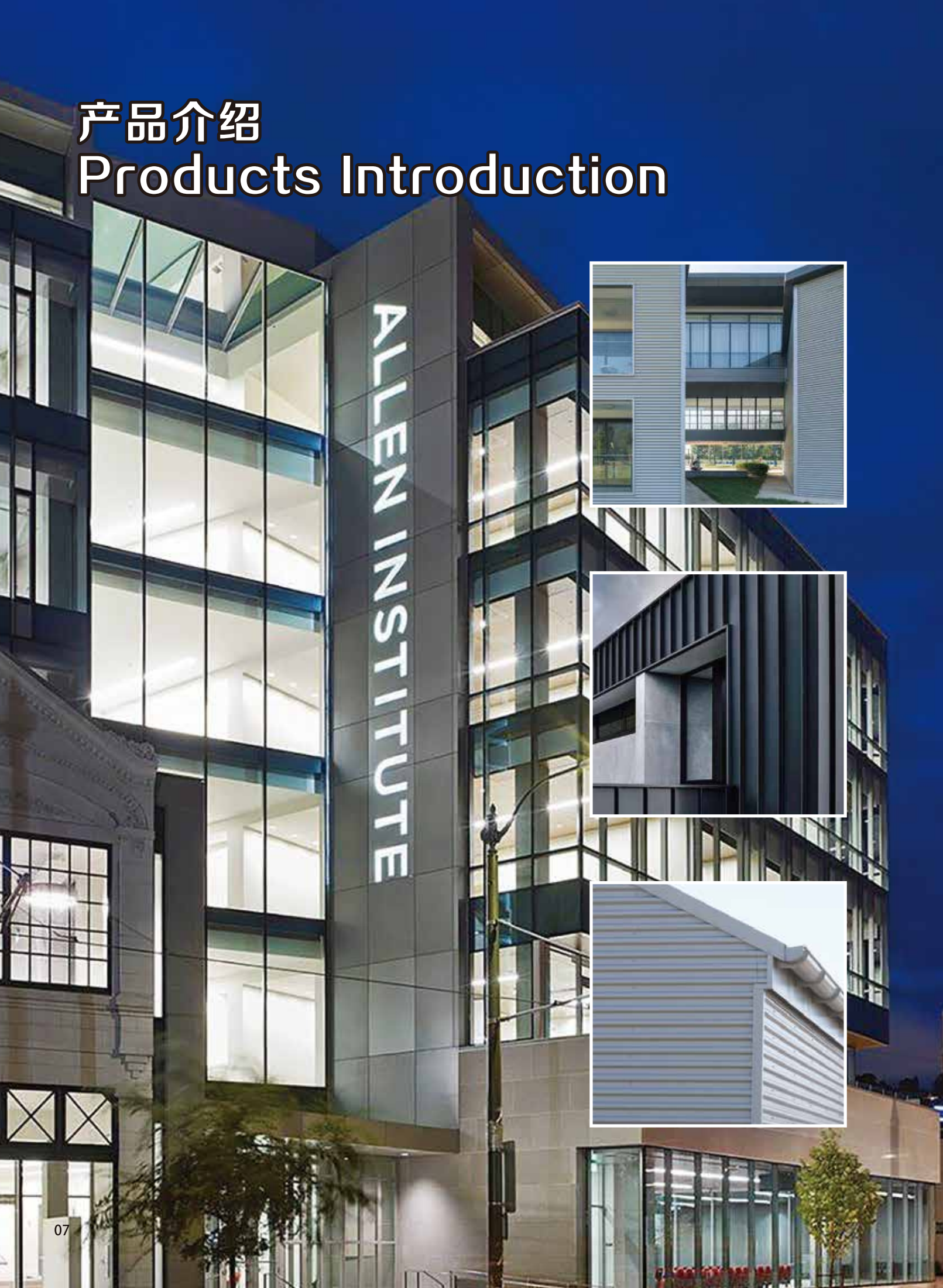


2019

罗保盛与梅泰克诺携手合作，在中国市场上翻开崭新的一章
Robertson cooperated with Metecno, opening a new chapter in the Chinese market



产品介绍 Products Introduction



Robertson Products

随着技术变革，集成式隐藏式紧固件墙板系统将引领发展。凭借独特的面板型材以及美观的挤压铝装饰板型，设计师将拥有创造下一个获奖设计作品所需的所有条件。

Inspired by technology, the integrated concealed fastener wall panel system will lead the way. With its unique panel profiles as well as beautiful extruded aluminum trim, the designer has all the tools necessary to create the next award-winning design.

产品特点： Products Features

- 4种可选版型
Four unique profiles
- 隐藏式支架和紧固件设计
Concealed clip and fastener design
- 通用的接口设计允许多个面板集成
Common joint design allowing multiple panel integration
- 表面光滑平整，浮雕纹理可选
Smooth surface standard, stucco embossed texture optional
- 所有PVDF涂层均可提供
All PVDF painted finishes available

产品参数： Technical Parameters

- 肋高（毫米）：38
Panel Depth(mm)
- 板型覆盖宽度（毫米）：305
Cover Width(mm)
- 彩涂钢板厚度（毫米）：0.6 / 0.75 / 0.85
Painted Steel Options(mm)
- 铝镁锰板厚度（毫米）：1.0 / 1.2
Aluminum Options(mm)
- 钛锌板厚度（毫米）：0.9 / 1.0
Zinc Options(mm)

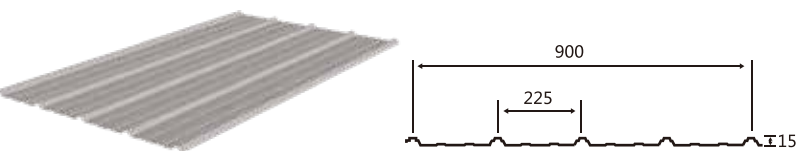
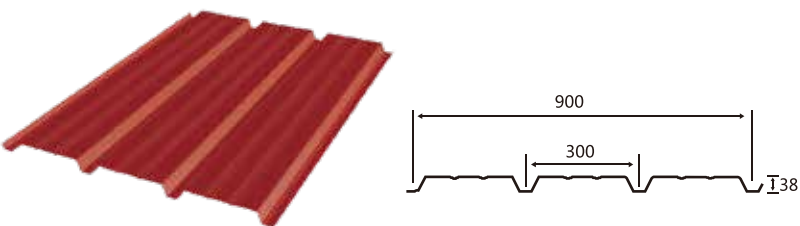
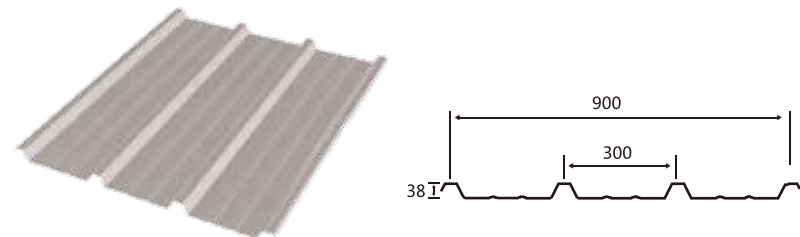
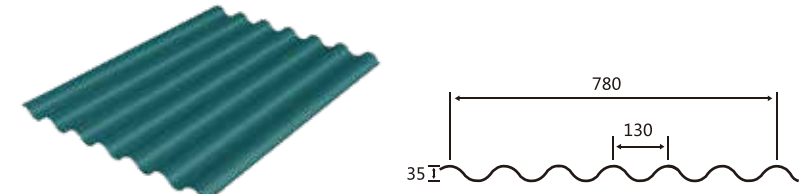
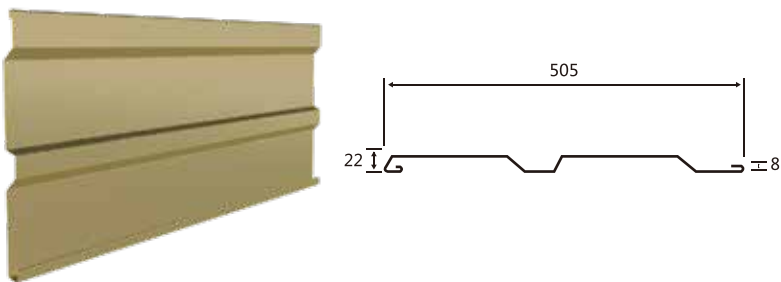
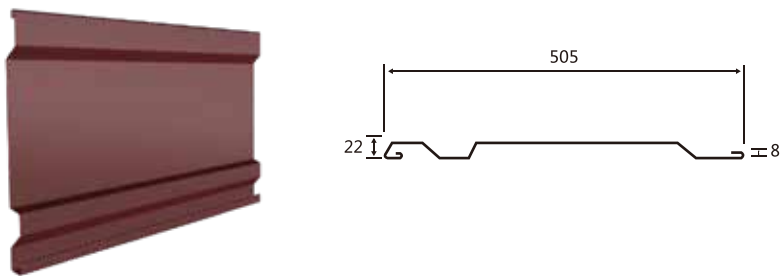
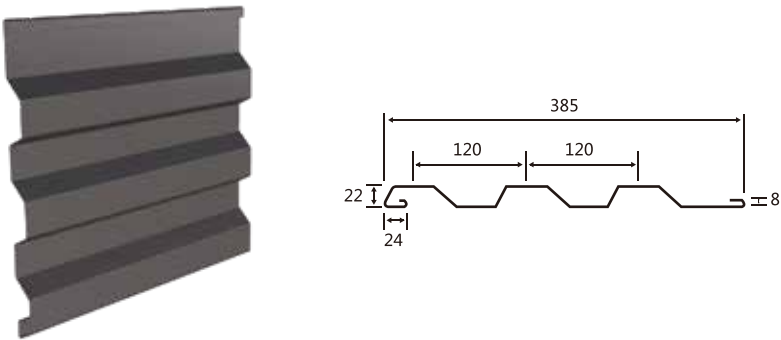
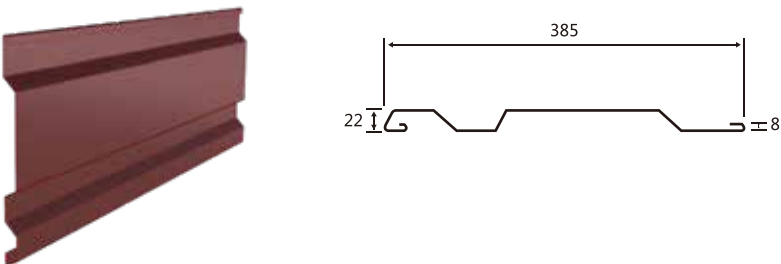
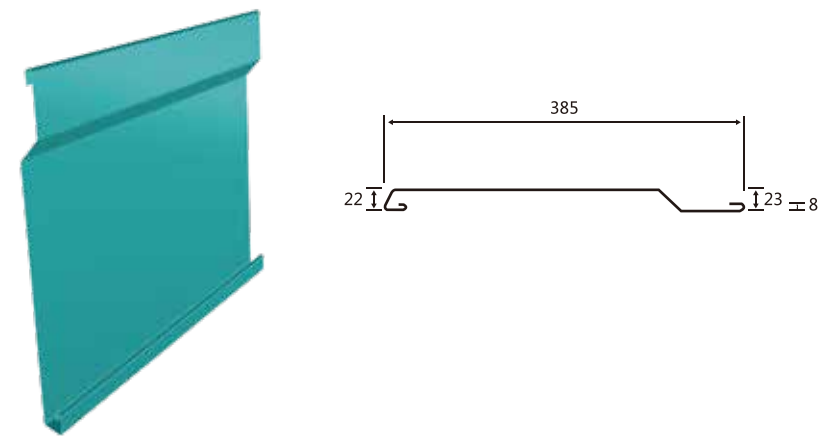
Robertson Products

此类不对称的异形集成式隐藏式紧固件墙板系统最先由著名的日本建筑师 Fumihiko Maki在90年代早期创建。自此，它已成为众多建筑师用于建筑物设计所常用的最优选择。

Such kind of asymmetrical integrated concealed fastener wall panel system was first created in the early 1990’ s by the famous Japanese architect Fumihiko Maki. Since then, it has become the best choice for many architects to use in building design.

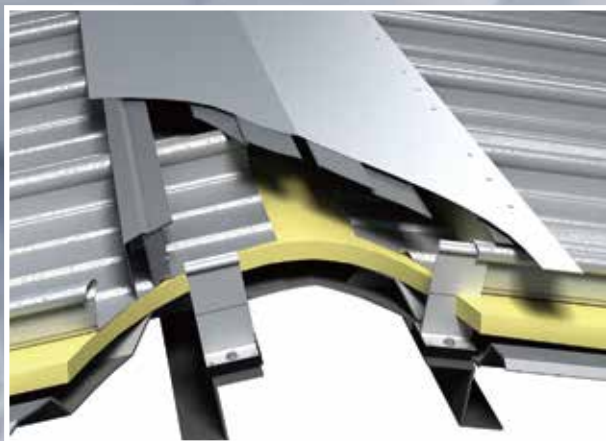
- 产品特点：
Products Features:
- 多种板型可选择
More choices
 - 隐藏式支架和紧固件设计
Concealed clip and fastener design
 - 通用的接口设计允许多个面板集成
Common joint design allowing multiple panel integration
 - 表面光滑平整，浮雕纹理可选
Smooth surface standard, stucco optional
 - 所有PVDF涂层均可提供
All PVDF painted finishes available

- 产品参数：
Technical Parameters:
- 肋高（毫米）：22
Panel Depth(mm)
 - 板型覆盖宽度（毫米）：305~505
Cover Width (mm)
 - 彩涂钢板厚度（毫米）：0.6 / 0.75 / 0.85
Painted Steel Options(mm)
 - 铝镁锰板厚度（毫米）：1.0 / 1.2
Aluminum Options(mm)
 - 钛锌板厚度（毫米）：0.9 / 1.0
Zinc Options(mm)

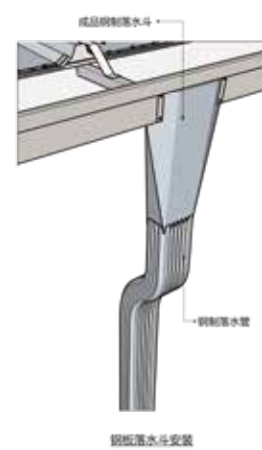
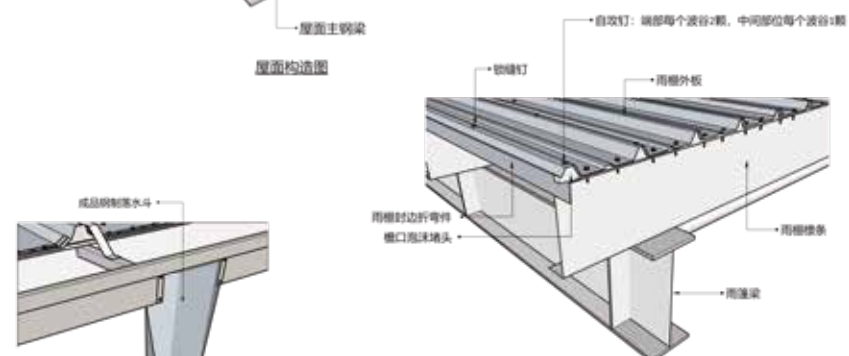
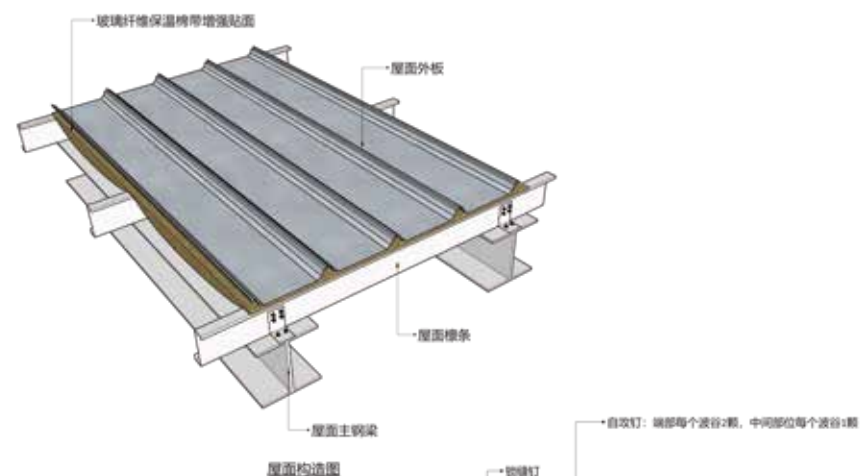


波纹板技术参数： Corrugated Panel Technical Parameters

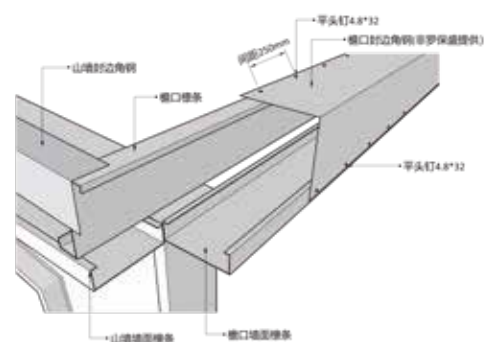
- 铝镁锰板厚度（毫米）：0.7 / 0.8
Aluminum Options(mm)
- 镀铝锌钢板厚度（毫米）：0.5 / 0.6 / 0.8
Galvalume Steel Options(mm)
- 铝镁锰板材质：AA3004 H44/H46
Aluminum Standard
- 镀铝锌钢板材质：G300 / G550
Galvalume Steel Standard
- 铝板表面处理：PVDF
Surface Treatment For Aluminum
- 钢板表面处理：HDP / PVDF
Surface Treatment For Galvalume Steel
- 波峰肋高（毫米）：22 / 35 / 38
Rib Height(mm)
- 覆盖宽度（毫米）：505 / 780 / 900
Cover Width(mm)
- 建议檩条支撑间距（米）：1.2~1.5
Recommended Purlin Spacing(m)



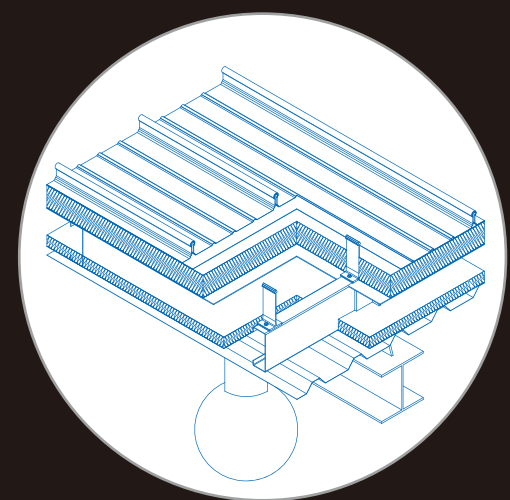
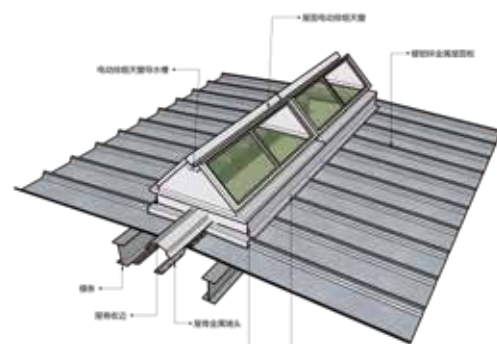
节点图/Node graph



成品落水斗安装



屋面主钢梁安装



标准构造层次： Standard Tectonic Level

- 面板/Panel
- 防水层/Waterproof
- 保温棉/Insulation Cotton
- 铁丝网/Barbed Wire
- 固定座/Fixed Clips
- 次檩条/Lining Purlin
- 吸音棉/Sound-absorbing Cotton
- 无纺布/Non Woven Fabric
- 底板/Bottom Panel
- 主檩条/Main Purlin

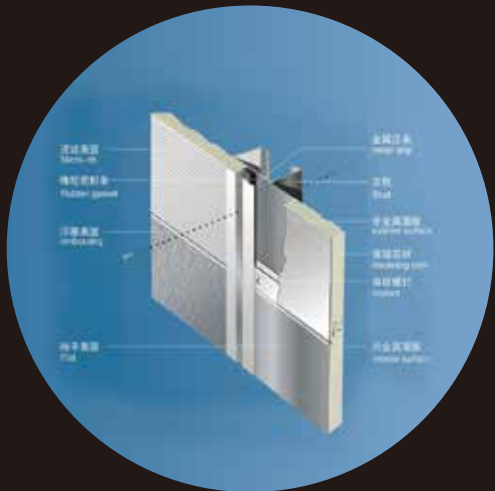
全能的解决方案
All-around solutions

墙面系统 Wall System



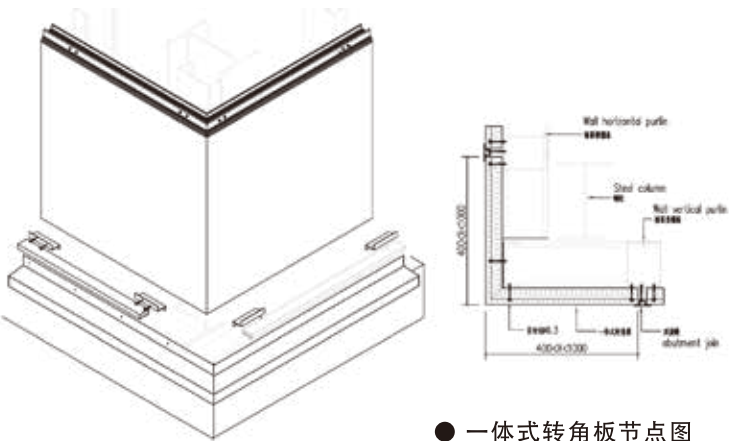
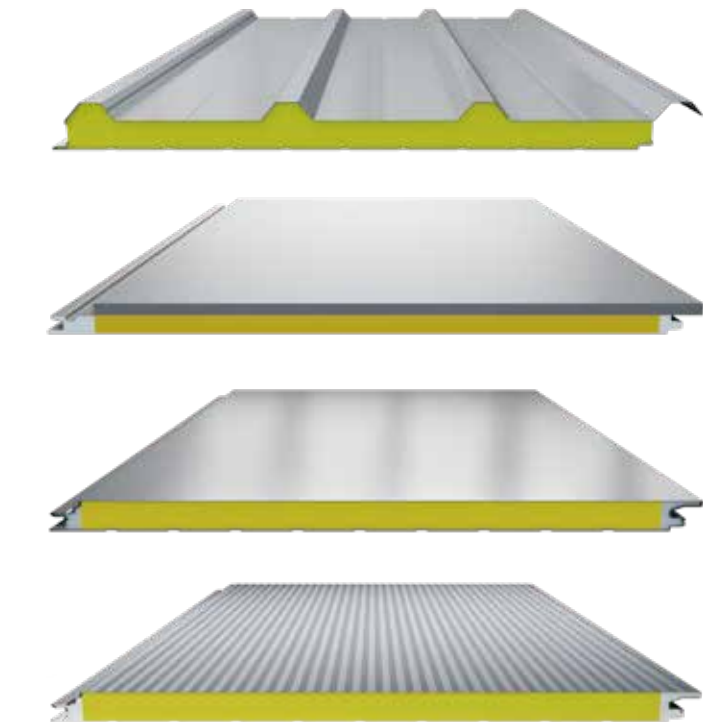
夹芯板墙面产品特点： Sandwich Panel Wall Products Features

- 绝佳的保温隔音效果，优异的耐火性能和环保工艺
Excellent thermal insulation and sound insulation, excellent fire resistance and environmentally friendly process
- 隐藏嵌入式结构设计，使表面平整光滑，安装更快捷高效
Concealed and embedded structure design to make the surface smoothly and Guaranteed faster and more efficient installation
- 高品质隔热材料，超低的导热系数，确保超高的保温隔热性能和防结露的产生
High-quality insulation material, ultra-low thermal conductivity, ensuring ultra-high thermal insulation and anti-condensation
- 双重密封防水设计，具有更优异的气密、水密效果
Double sealed waterproof design for superior air and water tightness



夹芯板墙面技术参数： Sandwich Panel Wall Technical Parameters

- 夹芯板厚度（毫米）：50 / 75 / 80 / 100 / 150 / 200
Sandwich Panel Thickness (mm)
- 外层钢板厚度（毫米）：0.55 / 0.6 / 0.65 / 0.8
Outer Skin Thickness (mm)
- 内层钢板厚度（毫米）：0.4 / 0.45 / 0.5
Inter Skin Thickness (mm)
- 表面质地：小波纹/压花/纯平
Surface Texture Ripple / Embossed / FlatCover
- 板型覆盖宽度（毫米）：600~1000
Cover Width(mm)
- 板长（米）：最大长度15米
Length(m)
- 外层钢板镀层烤漆：PVDF / HDP
Outer Skin Finish
- 内层钢板镀层烤漆：PE / PVDF / HDP
Inter Skin Finish
- 保温芯材：岩棉/玻璃丝绵
Insulation Materials Mineral Wool / Glass Wool
- 企口方式：两面企口/四面企口
Grooving Method Double-sided Grooving / Four-sided Grooving



● 一体式转角板节点图
Integral angleplate detail

门板系统 Door Panel System



门板产品特点： Door Panel Product Features

- 种类多样：可制作工业门、车库门、冷库门、特种门、卷帘门、滑升门等
Variety, can make industrial doors, garage doors, cold storage doors, special doors, rolling doors, sliding doors, etc
- 应用领域广泛：广泛应用于仓储物流、食品、电子、医疗、化工、汽车制造等领域
Wide range of applications, widely used in warehousing logistics, food, electronics, medical, chemical, automotive manufacturing and other fields
- 表面亮丽、防滑耐磨、密封性能好
Bright surface, non-slip and wear-resistant, good sealing performance
- 采用高强度堆积门铝合金抗风杆，达到高强度抗风效果
High-strength stacking door aluminum alloy wind-resistant rod for high-strength wind resistance
- 高品质密封材料，延长使用寿命
High quality sealing material for long life



滑升门门板由具有“世界复合板之王”之称的意大利跨国集团METECNO公司生产。在同类生产线中，各方面指标均达到国际领先水平。

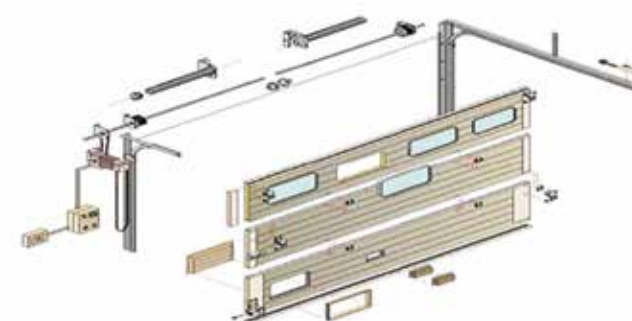
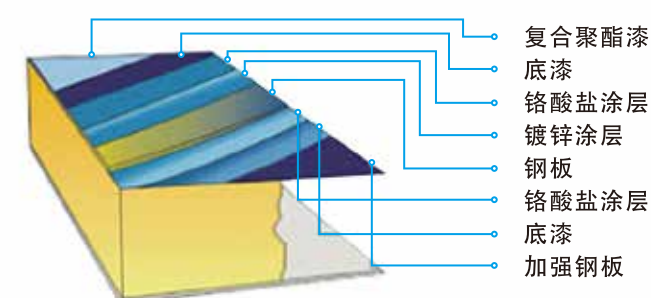
门板内含有横向通长加强筋，规格为40mm宽x1mm厚。

The sliding door panel is produced by the Italian multinational group METECNO, which is known as the 'king of the world's sandwich panels'. In the same production line, all aspects of the indicators have reached the international leading level.

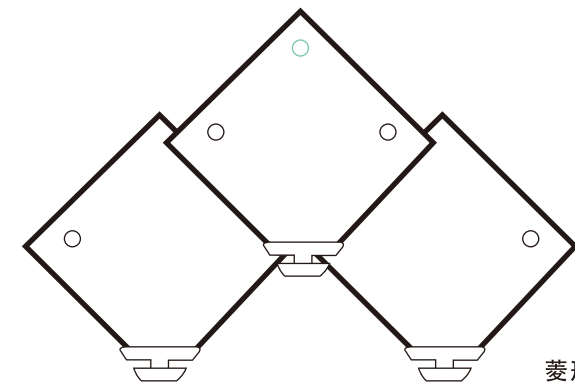
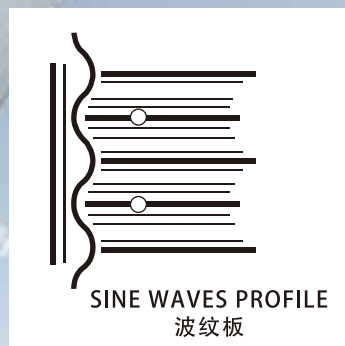
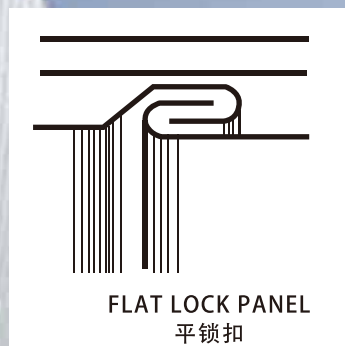
The door panel contains lateral lengthening ribs, the specification is 40mm wide x 1mm thick.

门板技术参数： Door Panel Technical Parameters

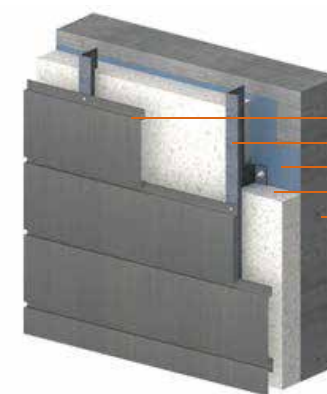
- 厚度（毫米）：42
Thickness (mm)
- 传热系数：0.43 Kcal/㎡.h.°C
Heat Transfer Coefficient (Kcal/㎡.h.°C)
- 导热系数：0.017 Kcal/m.h.°C
Thermal Conductivity (Kcal/㎡.h.°C)
- 板重：12.4 Kg/㎡
Weight (Kg/㎡)



幕墙系统 Curtain Wall System

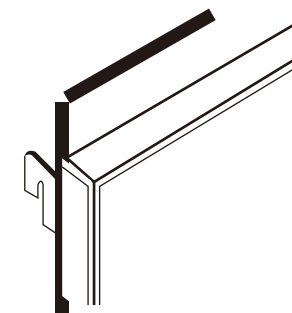
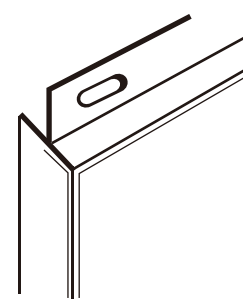


菱形预制板 / ADEKA

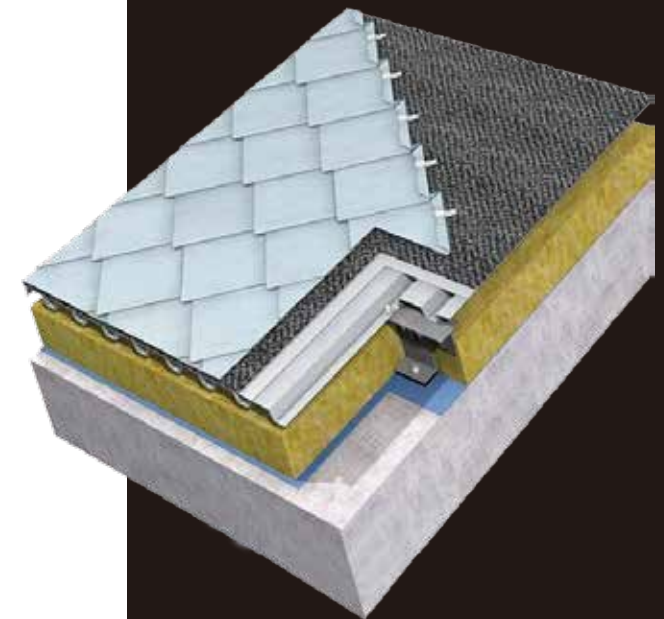


钛锌板墙面系统

内锁扣系统
镀锌钢或铝龙骨
防潮层
保温层 (上铺防水层)
墙面主结构



盒形预制板 / CASSETTES



菱形预制板系统特点： ADEKA Product Features

- 预制系统，安装快捷，不需要特殊加工工具
Prefabricated system, quick installation, no special processing tools required
- 适用条件：屋面坡度15度以上
Applicable conditions: roof slope more than 15 degrees
- 板间有5厘米的重叠部分确保防水
5 cm overlap between panels ensures waterproof
- 尺寸：400mm x 400mm
Size: 400mm x 400mm

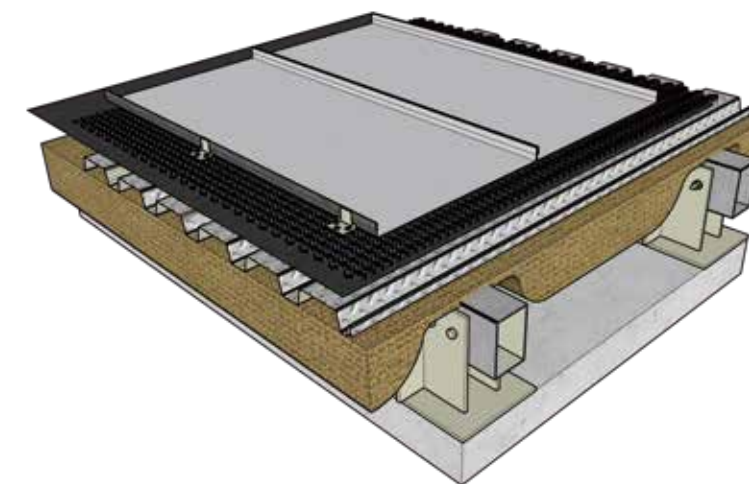
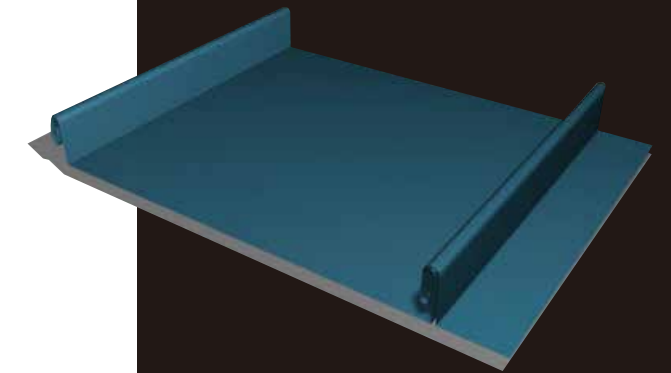
盒型板系统特点： CASSETTES System Features

- 现代的建筑外观样式
Modern architectural style
- 平整的外观
Flat appearance
- 适用条件：平直墙面
Applicable conditions: straight wall
- 连接方式：隐藏扣件
Connection method: hidden fasteners
- 排布方式：横向，竖向
Arrangement: horizontal, vertical

屋面系统 Roof System

Rt32产品特点: Rt32 Product Features

- 形态多样: 可选择直板、弧形板、扇形板和多种板宽
Variety of shapes, straight, curved, fan-shaped and a variety of widths are available
- 选材多样: 钛锌板、铝镁锰板、镀铝锌钢板、不锈钢板等
Diversified materials, aluminum, steel, stainless steel and etc
- 构造层次多样: 满足保温隔热、隔声降噪等不同需求
Diverse structural levels, meeting different needs such as thermal insulation, sound insulation and noise reduction
- 建筑造型复杂: 可满足多种形状的三维造型设计, 如: 球形、锥形等
Complex building shape, three-dimensional design that can meet a variety of shapes, such as spherical, tapered, etc
- 360° 卷边: 具有出色的防水性能
360° crimp for excellent water resistance
- 现场压型服务: 根据项目需求可提供现场压型服务
On-site molding service is available according to project requirements



Rt32技术参数: Rt32 Technical Parameters

- 铝镁锰板厚度 (毫米): 0.7 / 0.8 / 0.9
Aluminum Options(mm)
- 钛锌板厚度 (毫米): 0.7 / 0.8
Zinc Options(mm)
- 铝镁锰板材质: AA3004 / AA5754
Aluminum Steel Standard
- 钛锌板材质: 锌铜钛合金
Zinc Standard Zinc-copper-titanium Alloy
- 铝板表面处理: PVDF / PE
Surface Treatment For Aluminum
- 肋高 (毫米): 32
Rib Height(mm)
- 板型覆盖宽度 (毫米): 150~510
Cover Width(mm)
- 最小建议坡度: 5°
Recommended Minimum Gradient °
- 固定座支撑间距 (毫米): 300~500
Recommended Clips Spacing(mm)



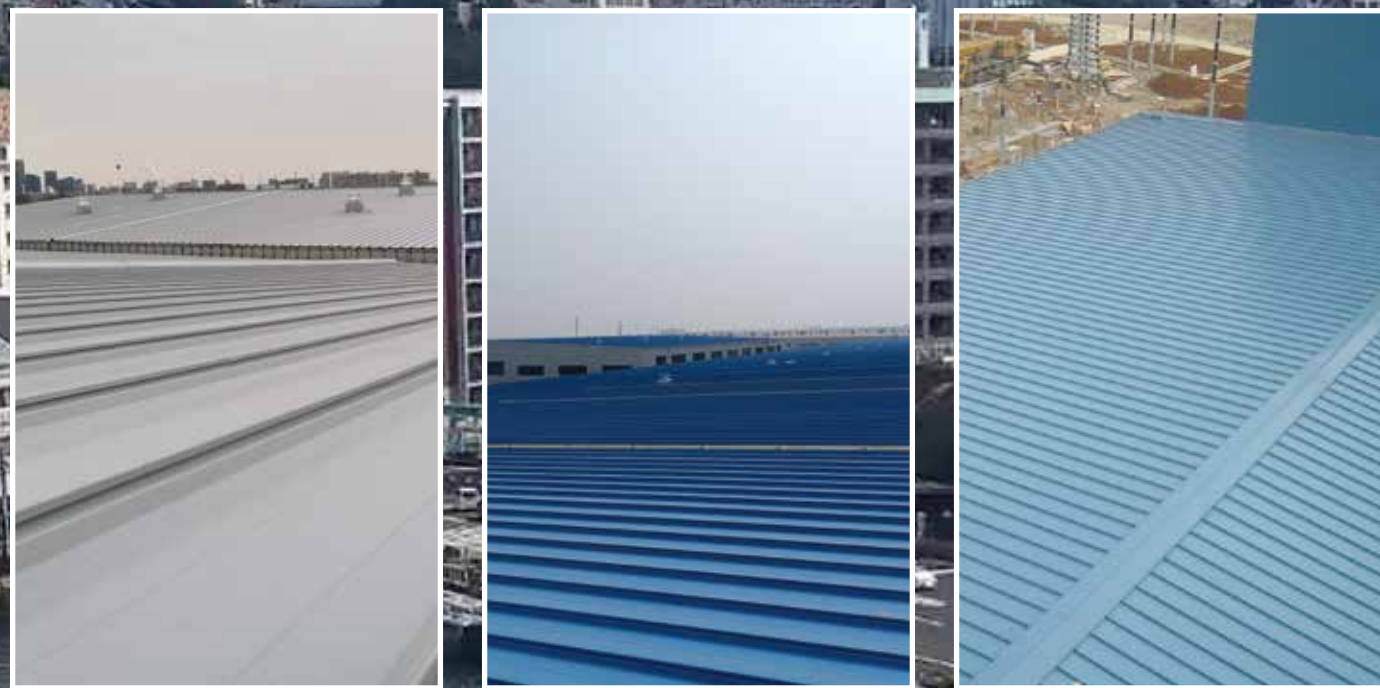
固定式固定座 / Fixed Clip



滑动式固定座 / Sliding Clip

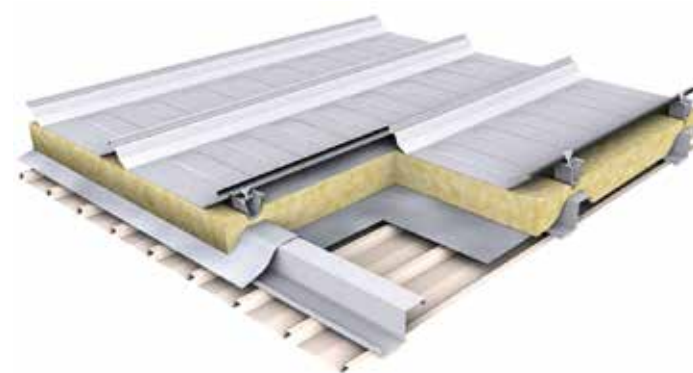
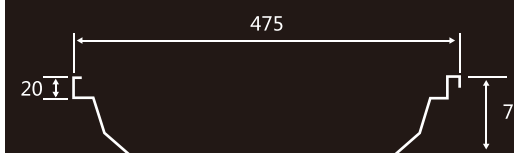


屋面系统 Roof System



Rt75产品特点: Rt75 Product Features

- 360° 卷边锁缝：具有出色的防水性能
360° crimp lock-seam have excellent waterproof performance
- 滑动支座：有效解决了屋面热胀冷缩引起的变形，提高屋面耐久性
The sliding clips effectively solves the deformation caused by thermal expansion and contraction of the roof and improves the durability of the roof
- 肋高75mm：防止暴雨漫过波峰以及雪融后出现的毛细渗水情况
Rib Height is 75mm, it can prevent the rain from overflowing over the peak and the capillary water seepage after the snow melts
- 横向加劲肋：降低风干扰，提高了屋面系统的抗变形能力
Horizontal stiffeners can reduce wind interference and improve the resistance of roofing systems
- 系统设计灵活：搭配不同的系统材料，保证优秀的保温隔热、隔音防水性能
Flexible system design, with different system materials to ensure excellent thermal insulation, sound insulation and waterproof performance
- 现场压型服务：根据项目需求，无需纵向搭接，进一步提高密水性，降低现场安装成本和技术难度，提高安装速度
Provided on-site molding service, according to the project requirements, no need to longitudinally overlap, further improve the water tightness, reduce the on-site installation cost and technical difficulty, and improve the installation speed



固定座/Fixed Clip

Rt75技术参数: Rt75 Technical Parameters

- 镀铝锌钢板厚度（毫米）：0.55 / 0.6 / 0.65
Galvalume Steel Options(mm)
- 镀铝锌钢板材质：G300 / Q345
Galvalume Steel Standard
- 钢板表面处理：ZINCALUME / HDP / PVDF
Surface Treatment For Galvalume Steel
- 肋高：75
Rib Height(mm)
- 板型覆盖宽度（毫米）：475
Cover Width(mm)
- 最小建议坡度：1°
Recommended Minimum Gradient
- 建议檩条支撑间距（米）：1.2~1.5
Recommended Purlin Spacing(m)

屋面系统 Roof System

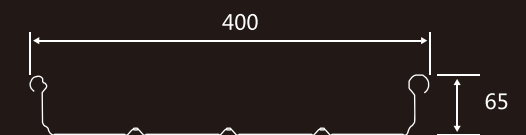
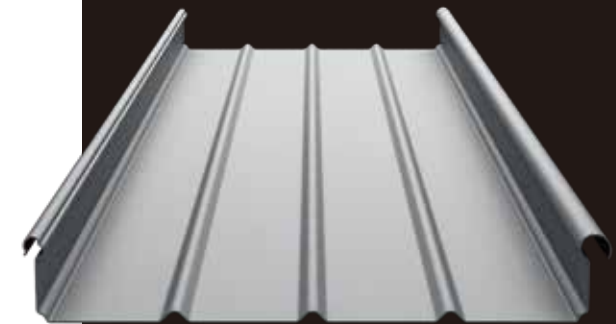
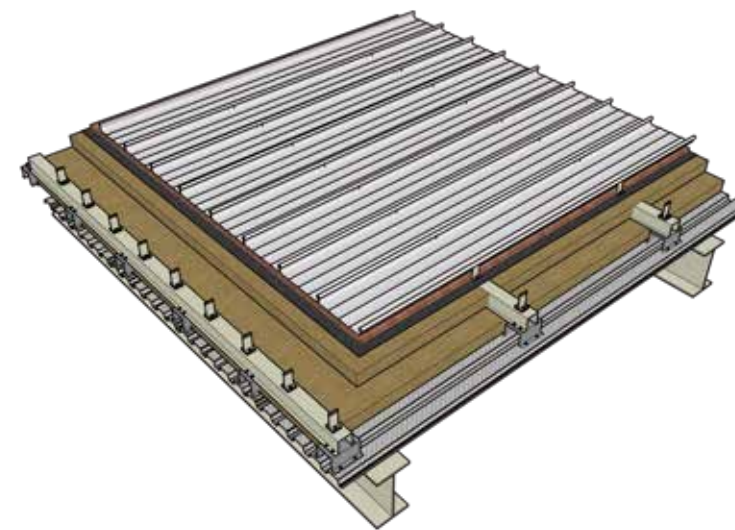
NATURALS AND PAINTED METALS



Rt65产品特点:

Rt65 Product Features

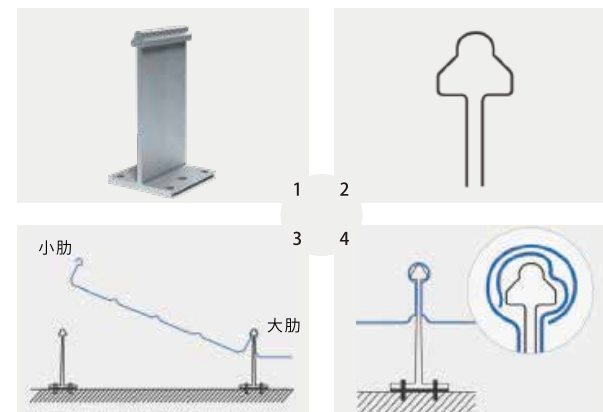
- 形态多样: 可选择直板、弧形板、扇形板和多种板宽, 以实现设计师无穷无尽的灵感, 满足各种设计需求
Variety of shapes, straight, curved, fan-shaped and a variety of widths are available to give designers an endless inspiration to meet a variety of design needs
- 高水密性和防渗漏性: 无螺钉穿透的直立锁边连接方式, 确保极佳的防水防渗漏
High water tightness and leakage resistance, upright seam connection without screw penetration ensures excellent water and leakage resistance
- 选材多样: 铝镁锰板、镀铝锌钢板、不锈钢及铜板等
Diversified materials, aluminum, steel, stainless steel and copper, etc.
- 系统设计灵活: 搭配不同的系统材料, 以满足保温、隔音、防潮、降噪等需求
Flexible system design, with different system materials to meet the needs of insulation, sound insulation, moisture, noise reduction, etc.
- 丰富的配套系统: 可搭配装饰板、防坠落系统、挡雪系统等
Rich supporting system, can be used with decorative panels, fall protection systems, snow blocking systems, etc.
- 现场压型服务: 根据项目需求, 以适用于更长的跨度
On-site molding service, for longer spans depending on project needs



Rt65技术参数:

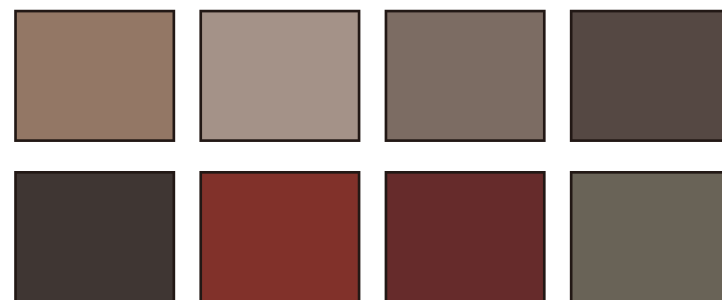
Rt65 Technical Parameters

- 铝镁锰板厚度 (毫米): 0.9 / 1.0 / 1.2
Aluminum Options(mm)
- 镀铝锌钢板厚度 (毫米): 0.6 / 0.85
Galvalume Steel Options(mm)
- 铝镁锰板材质: AA3004 H44 / H46
Aluminum Steel Standard
- 镀铝锌钢板材质: G300 AZ150
Galvalume Steel Standard
- 铝板表面处理: PVDF
Surface Treatment For Aluminum
- 钢板表面处理: HDP / PVDF
Surface Treatment For Galvalume Steel
- 肋高 (毫米): 65
Rib Height(mm)
- 板型覆盖宽度(毫米): 直板400 / 500 扇板 220~500
Cover Width(mm) straight fan-shaped
- 最小建议坡度: 1°
Recommended Minimum Gradient
- 建议檩条支撑间距 (米): 1.2~1.5
Recommended Purlin Spacing(m)

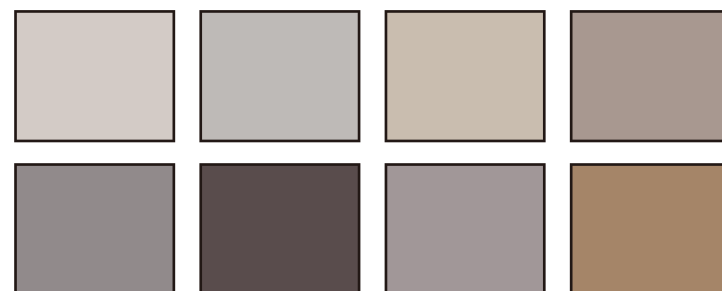


颜色选择/Color Selections

钢板/Steel



铝板/Aluminum



钛锌板/Zinc



RAL色卡更多选择...
More choices...

紧固件/Fastener

- 具有高耐蚀性、耐热性、低温强度和机械特性
High corrosion and heat resistance, low temperature strength and mechanical properties
- 美观实用，硬度高，不变形，高抗拉强度
Beautiful and practical, high hardness, no deformation, high tensile strength
- 优质原材制作，提高产品寿命
High quality raw materials to improve product durability



耐候胶/Weather Roofing Sealant

- 耐候性优异，耐久性强
Excellent weather resistance and long durability
- 粘接力强，有效防止渗漏
Strong adhesion to prevent leakage
- 抗腐蚀性好，环保材料
Excellent corrosion resistance, environmentally friendly materials



保温棉/Insulation

- 优异的保温隔热、防火减震效果，轻质柔软，安装容易
Excellent thermal insulation, fire prevention and vibration absorption, lightweight and soft, easy to install
- 吸声特性，有利于减少噪声污染，改善工作环境
Sound absorption characteristics help reduce noise pollution and improve working environment
- 贴面提供良好的室内表面观感并阻隔水汽，控制建筑结构冷凝结露
The veneer not only makes the interior look more beautiful but also blocks the water vapor to control building condensation



柔性密封收边/Flexible Flashing

- 优质防水卷材，可靠处理节点，高耐久性
High quality waterproof membrane, reliable node processing, high durability
- 耐高温、耐腐蚀性能强，防水效果好
High temperature resistance, strong corrosion resistance and good waterproof performance
- 外形美观，优异的耐候性
Beautiful appearance and excellent weather resistance



历史业绩 Historical Achievements



马耳他机库



成都云上别墅



北京房山线轻轨车站改造



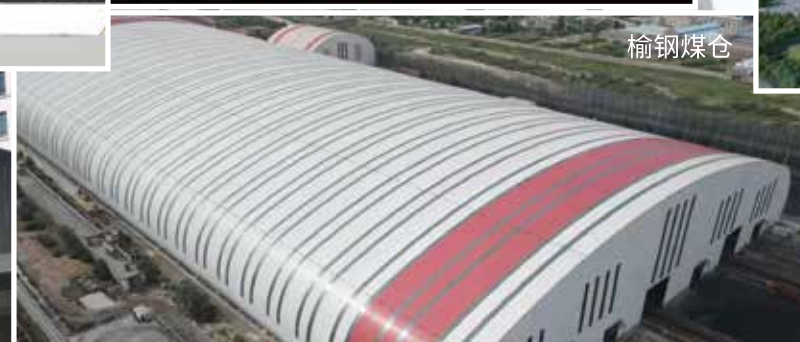
天津磨铁运营总部



坦桑尼亚职业技术学校



北戴河阿那亚



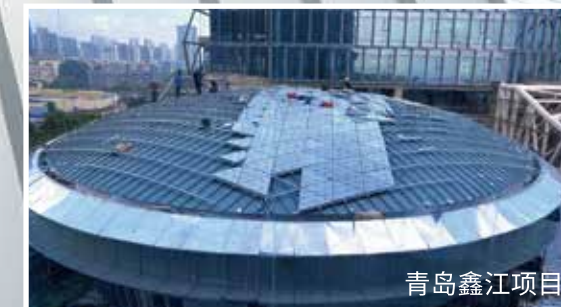
榆钢煤仓



涿州中船重工



北京城市副中心职工周转房



青岛鑫江项目



北京冬奥村



北京首钢园五一剧场



北京亦庄水厂



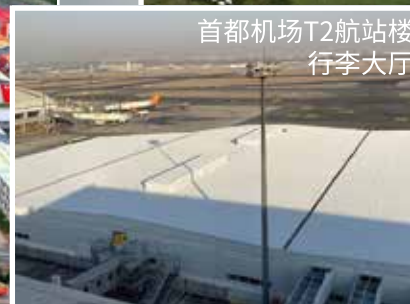
多米尼克农业科技综合楼



塞舌尔广电中心



北京方舱医院



首都机场T2航站楼行李大厅



崇礼太舞四季小镇



北京冬奥延庆运动员餐厅

Robertson Group is proud to have participated in the following major projects located in our region

罗保盛集团很自豪曾参与过位于我们地区的以下主要项目

North East Asia / 东北亚

POWER GENERATION/电厂	Project / Product	Value US \$000’ s
China Light & Power, Hong Kong, China	Caste Peak Power Stations A and B, Roofing System	5600
CNTIC/HITEC Consortium, China	Shandong Huaneng Dezhou PS Phase III, Cladding and Flooring Systems	994
CNTIC/HITEC Consortium, China	Dezhou Power Station Boilers, Cladding System	560
Electricity Authority of Vietnam	Phu My Power Station, Sth Vietnam, Roof & Wall Cladding Systems	1106
GEC Alsthorn Power Plants, China	Luohuang Power Station Phase 3 & 4 H MV Cladding	530
Guangdong Electric Power Bureau, China	Zhuhai Power Station, Cladding and panel Systems	377
Guangdong Nuclear Power JV, China	Lin Ao Power Station, Roof & Wall Cladding Systems	2467
Guangzhou Nuclear Power JV, China	Daya Bay Lin Ao Power Station, Cladding, Panel & ventilation Systems	2021
Guangzhou Nuclear Power JV, China	Ling Ao Nuclear Reactor, Cladding and Panel Systems	750
HCCM Nuclear Power Construction JV, China	Daya Bay Power Station. Roofing and Ventilation Systems	4000
Hong Kong Electric, Hang Kong, China	Lamma Power Station Stage III . H MV Cladding and Ventilation	2035
Hong Kong Electric, Hong Kong, China	Lamma Island Power Station, Various Stages. Roofing System	5440
Hong Kong Electric, Hong Kong, China	Coal Tower Replacement Programme, Roof & Wall Cladding Systems	1672
Hong Kong Electric, Hong Kong, China	Lamma Coal and Crushing Tower Replacements	1696
Hopewell/Costain, China	Shajiao B Power Station. Roofing and ventilation Systems	960
Hopewell/Slipform, China	Shajiao C Power Station. Cladding and ventilation Systems	2590
Hsin Tao Power, Taiwan, China	Hsin Tao Power Project, Cladding and ventilation Systems	2185
Hua Neng International, China	Shang An Power Station. Isopan Insulated Foam Panels	1515
North West Design Institute, China	Song Yu Power Station Xiamen PVF Versacor Clading	305
North West Design Institute, China	Zouxian Powr Salion. Isopan Insulated Panels	690
Qinshan Power China	Qinshan Candu Nuclear Power Plant. Cladding System	628
Taiwan Power Tanan, China	Tai Chung Boiler House 5. H MV Cladding	1145
Taiwan Power Tanan, China	Tai Chung Fossil Power Plant. PVF Versacor Cladding	885
Taiwan Power Tanan, China	Tai Chung Power Station Structures. Cladding System	4365
Taiwan Power Tanan, China	Tung Hsiao Power Station Combined Cycle Unis 4-5. Clading System	1360
Taiwan Power Tanan, China	Taiwan Nuclear No 2 Turbine Hall Recladding Project, Cladding System	1027
Vietnam Government	Phu My 1 Power Plant, Cladding and Panel System	1352
Talin Coal, Taiwan , China	Coal Loader. Cladding System	1960

INDUSTRY/工业建筑		
Chu’s FCC, China	China Nam Kwong. Pre-Engineered Metal Building	475
Eastern Communicaion, China	Eastcom Manufacturing Plant, Panel System	1183
Eastern Communicaion, Hangzhou, China	Eastcom Plant, Cladding and Panel Systems	1096
Eastern Communicaion, Hangzhou, China	Eastcom Plant Buldings C, D, E Cladding and Panel Systems	760
Far East Levingstone, China	Guangdong Glass Plant. Roofing and ventilation Systems	960
Happyyear Metal Structure, Philippines, China	Moldex Products Inc. Pre-Engineered Metal Building	1470
Happyyear Metal Structure, Philippines, China	China Mall 2- PEB. Pre-Engineered Metal Building	1035
Hewlett Packard, Shanghai, China	Printer Manufacturing Facility, Panel, Cadig & Glazing Systems	1759
Hewlett Packard, China	Hewlett Packard Manufacturing Facility, Clading, Panel/Windows&Ventilation	1761
Jiangmen Glass, China	Jiangmen Glass Plant. Pre-Engineered Metal Building and Ventilation	5020
Lafarge Aluminates, China	Lafarge Cement Plant, Cladding System	698
Leighton Contractors, Hong Kong, China	Nestle Dairy Farm H998. H MV Cladding System	405
Level 3, Hong Kong, China	Comm Cable Landing Station, External Clading, Panel Window & Ventilation	970
Macau Government, Macau, China	Incinerator. Roofing, Cladding and Ventilation systems	2400
Northern Star Auto, Beijing, China	Auto Factory, Pre-Engineered Building	380
Pacific Pastics (Suzhou) Co, China	Pacific Plastics (Suzhou) Co. Pre-Engineered Metal Building	495
Phillips (Hua Fei), China	Philips Plant, Panel, Window and Ventilation Systems	940
Plantation Timber Products, China	Leshan Project Pre-Engineered Metal Building	425
Precision Machinery Jiangmen, China	Glass Plant/Furnace&Float Buildings, Pre-Engineered Building	2818
Precision Machinery Jiangmen, China	Jiangmen Glass Plant, Aux. Buldings Pre-Engineered Building &Ventilation system	1507
Shanghai Steel Tube, China	Shanghai Steel Tube. Pre-Engineered Metal Building	850
Shenyang Aerospace, Shenyang, China	Panasonic Sanlin Engine Manufacturing Plan, Panel system and Fire Vents	424
United stone Industrial Co, China	Storage Shed in Suzhou. Pre-Engineered Metal Building	350

INFRASTRUCTURE/基础设施		
Architectural Services Department, Hong Kong, China	Stonecutters Isand, Improvement works Cladding, Ventilation&Glazing Systems	2326

Cathay Pacific, Hong Kong, China	Flight Catering Facility, Chek Lap Kok	3300
Da Zhen Hua (Tianjin) Construction, China	Ging Dao Harbour Bureau. Pre-Engineered Metal Building	690
Government of Hong Kong, Hong Kong, China	Bridge at Lantau Crossing Stainless Steel Trphoon Shields	8000
Guang Dong Exhibition Centre, China	Guang Dong Exhibition Centre, Cladding and Panel Systems	1670
Hong Kong Electric, Hong Kong, China	CC404- Mei Foo Station Cladding, Panel and Ventilaton Systems	1006
Hong Kong Electric, Hong Kong, China	CC300 Tsuen Wan Station&Approach Tunnels, Panel Systems	4110
Hong Kong Government, China	Dockyard improvements, Cladding, Panel, Glass and ventilation Systems	2456
Hong Kong International Terminal, Hong Kong, China	HK HIT CT9 Gatehouse, Structural Steel, Cladding, Windows Louvres and Metal Works	1553
KEC Joint Venture, Hong Kong, China	MTRC Contract 503(2) Komloon Station-Metal Wall Single Skin Clading & Steehwork	1245
Kowloon Canton Railway Corp, Hong Kong, China	CC404-Mei Foo Station, Panel System	1649
Kowloon Canton Railway Corp, Hong Kong, China	CC213 Tuen Mun Station, Window, Glass and Ventilation Systems	1187
Maeda, Hong Kong, China	MTRC Contract 508(5). Double Skin Metal Cladding and Glazing Systems	3030
Mass Transit Railway Corporation, Hong Kong, China	MTRC Contract 518(8) Siu Ho Wan Depot. Double Skin Cladding and Glazing	11555
Mass Transit Railway Corporation, Hong Kong, China	MTRC Contract 518(8) Siu Ho Wan Depot, Cladding System	12067
Mass Transit Railway Corporation, Hong Kong, China	MTRC Contract501, Central Station. VETunnel lining, Specialised Glazing Systems	4800
Mass Transit Railway Corporation, Hong Kong, China	MTRC Sub-Contract 501(2) Central Station, Panel System	1537
Mass Transit Railway Corporation, Hong Kong, China	MTRC Sub-Contract 501A(2) Central Station, Panel System	2972
Mass Transit Railway Corporation, Hong Kong, China	MTRC Sub-Contract 505(2) Tai Kok Tsui Station, Vitreous Enamel Panel System	2023
Mass Transit Railway Corporation, Hong Kong, China	MTRC Sub-Contract 516(2) Tung Chung Station&Tunnels, Vitreous Enamel Panel	2481
Qing Dao HarBour Bureau, China	Pre-Engineered Building	357
Taiwan Government, China	Tainan Refuse Incinerator Plant, Cladding and Panel System	1677
Taiwan Government, China	Taiwan Hsichou Refuse Resource Recovery Plant, Cladding and Panel System	1343
The Environmental Protection Authority of Taiwan, China	Kaohsiung Ren Wu Refuse Recovery Plant, Panel and Cladding Systems	1521
The Environmental Protection Authority of Taiwan, China	Hsichou Refuse Resource Recovery Plant, Panel and Cladding Systems	1261
The Environmental Protection Authority of Taiwan, China	Tainan Refuse Incineration Plant, Panel, Cladding and Ventilation Systems	2056

INSTITUTIONS/公共建筑		
Department of Works, Hong Kong, China	Jubilee Sports Centre. Panel System	640
Hong Kong Electric, Hong Kong, China	HEC Head Office Development, Cladding System	476
Royal Hong Kong Jockey Club, Hong Kong, China	Happy Valley Grandstands, Roofing and Panel Systems	3200
Wang Chong Construction Co, Hong Kong, China	Indoor Game Hall (4 nos.) Improvement Works. Panel System	640

CITY/商业建筑		
Hong Kong and Shanghai Banking Corp, HK, China	Head Office. Flooring System	3200
Hong Kong Electric, Hong Kong, China	Head Office Development, Stainless Steel Roofing	426
Hysan Corporation, Hong Kong, China	AIA Plaza Design & Repairing of Curtain Wall Water Leakage	415
Hysan Corporation, Hong Kong, China	Sunning Plaza Design & Repair Curtain Wall	397
Xiamen Electricity Bureau, China	Xiamen Electric Control Tower. Curtain Wall System	1610

South East Asia / 东南亚

POWER GENERATION/电厂	Project / Product	Value US \$000’ s
China Power Authority, China	San He Power Station Boiler (MHI Kobe), Cladding and Floor Deck Systems	1558
China Power Authority, China	San He Power Station Turbine (MHI Takasago), Cladding & Floor Deck Systems	1540
Electricity Generating Authority of Thailand	Mae Moh Power Station, Stages 1 to 13. Cladding and Sun Shade Systems	16000
Electricity Generating Authority of Thailand	Rayong Power Station Units 1 to 3. Cladding System	3200
Electricity Generating Authority of Thailand	Wang Noi Power Station-Stage I. Cladding and Floor Deck Systems	3225
Electricity Generating Authority of Thailand	Ratchaburi Thermal Power Plant, Cladding Systems	2805
Electricity Generating Authority of Thailand	Ratchaburi Combined Cycle, Cladding System	4964
PT PLN, Indonesia	Tambak Lorok Power Station-Stage II. Cladding, Ventilation and Floor Deck System	2135
PT PLN, Indonesia	Paiton Power Station. Cladding and Ventilation Systems	2960
PT PLN, Indonesia	Tanjung Priok Power Slation. Cladding and Ventilation Systems	8800
Singapore Power, Singapore	Pulau Seraya Power Station, Stages 1, 2 & 3 Cladding System	4000
Singapore Power, Singapore	Kampong Java Sub-Station. Roofing System	1200
Tenaga Nasional Berhad, Malaysia	Paka Power Station. Roofing and Ventilation Systems	2400
Tenaga Nasional Berhad, Malaysia	Port Dickson Power Station. Cladding and Ventilation Systems	2400
Tuas Power, Singapore	Tuas A Power Station, Stage 1. Cladding System	3200

INDUSTRY/工业建筑		
Asia Pacific Breweries, Singapore	Brewery. Roofing and Ventilaton Systems	2400
Baxter Healthcare, Singapore	Factory. Cladding System	4000
Baxter Healthcare, Singapore	Laboratories Buildings. Panel and Roofing Systems	4000
Becton Dickinson, Singapore	Factory. Roofing and Panel Systems	2160
Becton Dickinson, Singapore	Laboratory Complex. Panel and Roofing Systems	2000
Cahners Exposition Group, Singapore	Changi Aerospace Exhibition Centre. Cladding System	1300
Compaq, Singapore	Office Block, Stage I. Panel System	1360

Compaq, Singapore	Office Block, Stage II. Panel System	1800
MLNG, Malaysia	LNG Plant. Cladding and Ventilation Systems	3600
National Iron and Steel Mills, Singapore	Steel Mill. Roofing and Ventilation Systems	1040
Phone-Poulenc Rorer, Singapore	Production Facility. Panel and Roofing Systems	1770
Seagate Technoloy International Singapore	Factory and Office Block. Roof, Panel, Window, Curtain Wall and Ventilation System	2300
Sura Maharas Co, Thailand	Bangyikhan Distillery. Cladding, Ventilation and Flooring System	1120
Tootal, Myanmar	Shwedaung Textile Plant. Cladding System	1200

INFRASTRUCTURE/基础设施		
Malaysia Airline System, Malaysia	MAS Hangar, Subang. Cladding and Ventilation Systems	1300
Ministry of the Environment, Singapore	Senoko Incinerator. Cladding, Flooring and Ventilation systems	3200
Ministry of the Environment, Singapore	Tuas Incinerator. Cladding System	2400
Ministry of the Environment, Singapore	Uu Pandan Incinerator. Cladding System	1600
Singapore Airlines, Singapore	Main Hangar, Changi Airport. Cladding and Ventilation Systems	1500
Singapore Airprot Terminal Sevices, Singapore	Inflight Catering Services. Cladding and Panel Systems	1120
Singapore Airport Terminal Sevices, Singapore	SATS Inflight Kitchen Stage 1. Roof and Wall Systems	1000

INSTITUTIONS/公共建筑		
Jurong Town Corporation, Singapore	Standard Factories. Panel System	2400
Ministry of the Environment, Singapore	Tuas South Incineration Plant, Contract 3, Roof & Wall Cladding, Panel and Ventilation Systems	5292
Ministry of the Environment, Singapore	Tuas South Incineration Plant, Contract 2, Reception Hall, Work Stores & Admin Building	1201
Ministry of the Environment, Singapore	Pulau Semakau Offshore Landill, Contract No. 2, Roof Cladding System	1165
Ministry of the Environment, Singapore	Pulau Semakau Offshore Landill, Contract No. 6, Roof Cladding System	1111
Ministry of the Environment, Singapore	Ulu Pandan Sewerage Treatment Plant, Extension, Roof Cladding System	1280
MRTC Singapore	Mass Rapid Transit Complex. Cladding, Panel and Ventilation Systems	13600
Temasek Holdings, Singapore	Temasek Tower, Flooring and Curtainwall Systems	8000

CITY/商业建筑		
Apollo Centre, Singapore	Apollo Centre. Panel and Glazing systems	1840
Bangkok Bank, Singapore	Bangkok Bank Refurbishment. Panel system	1040
LKN Corporation, Singapore	Prinsep House. Panel and Glazing systems	1040

PACIFIC / 太平洋

POWER GENERATION/电厂	Project / Product	Value US \$000' s
Electricity Commission, NSW, Australia	Bayswater PS, Generation and Workshop Buildings. Cladding and Ventilation Systems	7200
Electricity Commission, NSW, Australia	Eraring PS, Generation and Administration Buildings. Cladding and Ventilation Systems	6400
Electricity Commission, NSW, Australia	Mt Piper PS, Generation and Workshop Buildings. Cladding and Ventilation Systems	3200
Electricity Commission, NSW, Australia	Munmorah PS, Generation and Workshop Buildings, Cladding and Ventilation Systems	2560
Electricity Commission, NSW, Australia	Vales Point PS, Stages 1, 2 & 3. Cladding and Ventilation Systems	3760
Electricity Commission, NSW, Australia	Wallerawang PS, Units 7 & 8. Cladding and Ventilation Systems	1440
Electricity Commission, NT, Australia	Channel Island PS, Panel and Cladding Systems	2000
Electricity Generating Board, QLD, Australia	Swanbank PS, Generation and Workshop Buildings. Cladding and Ventilation Systemrs	1600
Hydro Electric Commission, TAS, Australia	Bell Bay PS, Generation Buildings. Cladding and ventilation Systems	800
Hydro Electric Commission, TAS, Australia	Various Hydro PS, Generation Buildings. Roofing, Cladding and Ventilation Systems	2400
State Electricity Commission, VIC, Australia	Hazelwood PS, Turbine House Roof, Boiler House. Cladding and Ventilation Systems	6560
State Electricity Commission, VIC, Australia	Loy Yang Power Station Stages A and B. Cladding and Ventilation Systems	8640
State Electricity Commission, VIC, Australia	Newport "D" PS, Generation and Workshop Buildings. Clading and Ventilation Systems	2000
State Electricity Commission, VIC, Australia	Yallourn "W1" & "W2" Power Station. Various Buildings. Cladding and Ventilation Systems	3200
Western Power, WA, Australila	Collie PS, Generation, cola handling and workshop Structures	3924

INDUSTRY/工业建筑		
Alcoa of Australia, VIC, Australia	Aluminium Smelter. Ventilation System	1200
Arnotts Biscuits, NSW, Australia	Production Facility. Panel and Ventilation Systems	1800
BHP, NSW, Australia	Mini Mill Stage 2, Rooty Hill Ventilation Systems	1440
Boyne Smelter, QLD, Australia	Aluminium Smelter. Ventilation System	1600
Bulk Sugar Terminals, QLD, Australia	Bulk Sugar Storage and Handling facilities	4700
Copper Refineries, QLD, Australia	Smelter and Process Buildings. Cladding and Ventilation Systems	760
Goodman Fielder, NSW, Australia	Corporate Headquarters, Panel System	766
Meandu Coal, QLD, Australia	Workshop and Process Buildings. Cladding and Ventilation Systems	880
Mt Isa Mines, QLD, Australia	Industrial Processing Buildings. Cladding System	1760
NZ Aluminium Smelters, New Zealand	Aluminium Smelter Extension. Ventilation System	1130
Penfolds, SA, Australia	Bottling Complex. Panel, Glazing and Ventilation Systems	2000
Pilkington, VIC, Australia	Float Glass Manufacturing Plant. Cladding and Ventilation Systems	1200
Roxby Management Services, SA, Australia	Copper Processing Buildings. Cladding and Ventilation Systems	3200
Tomago Aluminium, NSW, Australia	Aluminium Smelter Stages 1 and 2. Clading and Ventilation Systems	6210
Tomago Aluminium, NSW, Australia	Tomago Aluminium Smelting Facility Extension 10 Potlines A, B, C & D, Ventilation Systems	1178

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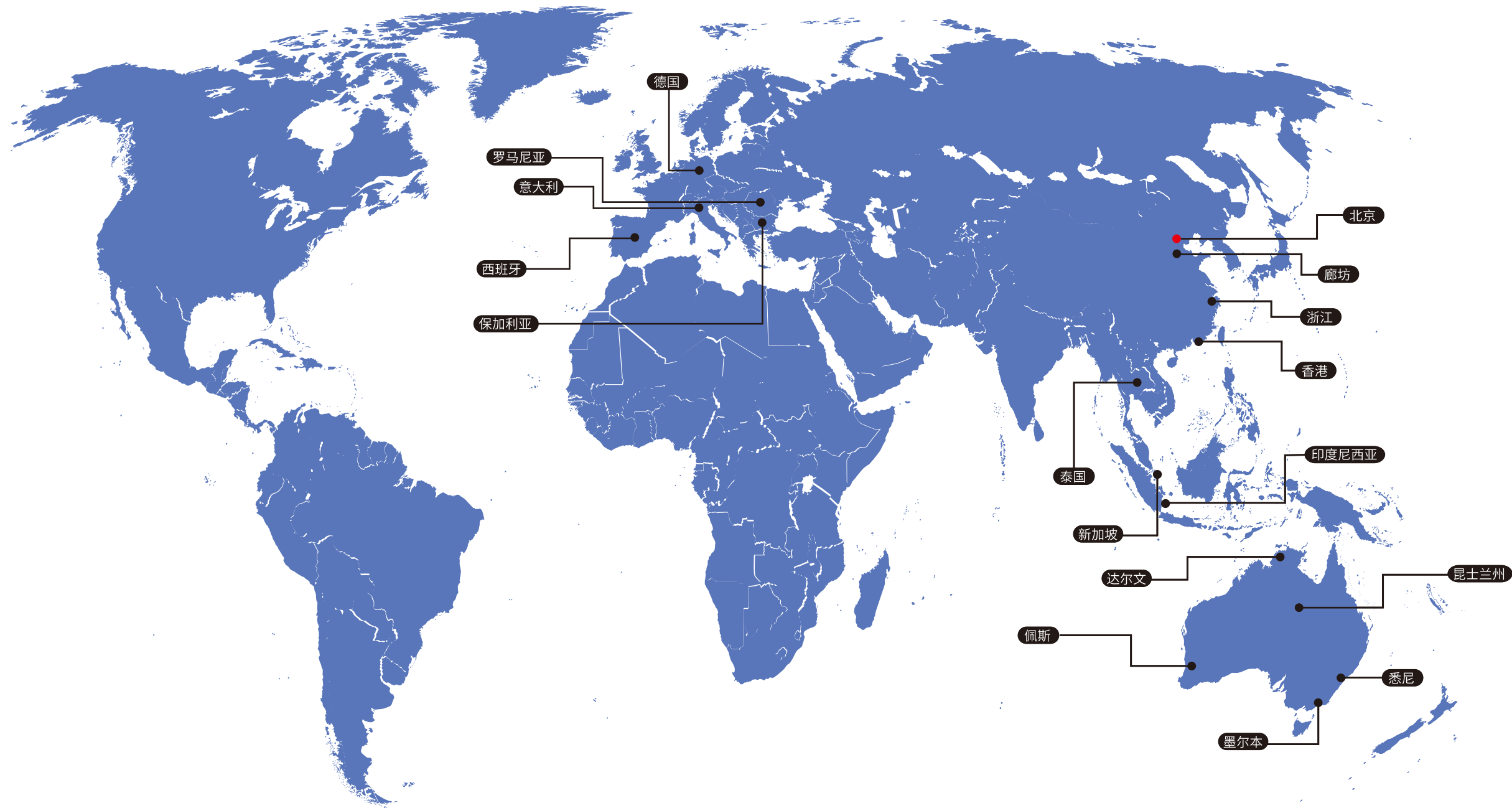
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