温馨提示 WARM PROMPTFASHION

本公司产品您可自由选择，图示仅为公司部分产品，印刷过程可能令资料的产品图片与实物有细微区别；颜色与款式以实物为准，公司保留更改产品设计与规划的权利，最终解释权属本公司；未经许可盗用或窃取本公司资料产品，将追究法律责任。

vaou | 凡优设计 画册 / 摄影 / 展厅 15919059982

豪鸿
HAOHONG

产品手册

PRODUCT
MANUAL



COHESIVE ARCHITECTURE
BUILD YOUR SPIRIT

凝聚建筑 · 铸就气魄

铝单板整体装饰解决方案

ALUMINUM VENEER OVERALL DECORATION SOLUTION

铝单板整体装饰解决方案

ALUMINUM VENEER OVERALL DECORATION SOLUTION



HAO HONG

BUILDING MATERIALS

凝聚建筑 · 铸就气魄

COHESIVE ARCHITECTURE
BUILD YOUR SPIRIT

让世界领略到建筑艺术的无限风光，
将装饰领域引领至无止境的未来，延伸至更精彩的境界。

Let the world enjoy the infinite scenery of architectural art,
It will lead the decoration field to an endless future and extend it to a more wonderful realm.



公司简介

COMPANY PROFILE

有限公司主要致力于设计与生产高档建筑室内外装饰用铝单板、及各种装饰铝板等产品，并提供优良的服务及相关解决方案，为客户创造高品位的艺术空间环境是公司执着的追求。

公司创立的品牌 --“豪鸿”，始创于 2019 年。在激烈的市场竞争中，豪鸿积极进取，勇于迎接市场挑战，不断开拓创新，在提高产品质量的同时还在产品造型、色彩等方面推陈出新，精益求精，采纳先进的建筑装饰艺术理念，倡导现代生活，为您创造完美的艺术空间。

公司严格按照 1S09001:2000 质量保证体系各要素的标准和要求运作，在产品的生产控制过程中，对于产品的质量检测和把关。

企业长期坚持“质量为先，诚信至上，服务一流”的经营理念，竭诚打造优质品牌。公司拥有先进的全自动喷涂设备和最先进的控温炉、液化气燃烧系统及德国的前处理工艺技术，数控激光板机，数控折弯机，数控开料机，塔式数控冲床，具备了年产喷涂铝板 100 万平方米的生产加工能力，在国内同行中堪称规模较大，功能齐全，设备先进，服务到位的企业。

“豪鸿”品牌从推广以来，成功设计和承造了多项工程，以其卓越的品质与优质的服务，赢得了市场高度的信任和认可，并深受广大客户的欢迎和喜爱。

Building Materials Co., Ltd. is mainly committed to the design and production of high-end building interior and exterior decoration aluminum veneer, and a variety of decorative aluminum plate and other products, and provide excellent services and related solutions, creating a high-grade art space environment for customers is the company's persistent pursuit.

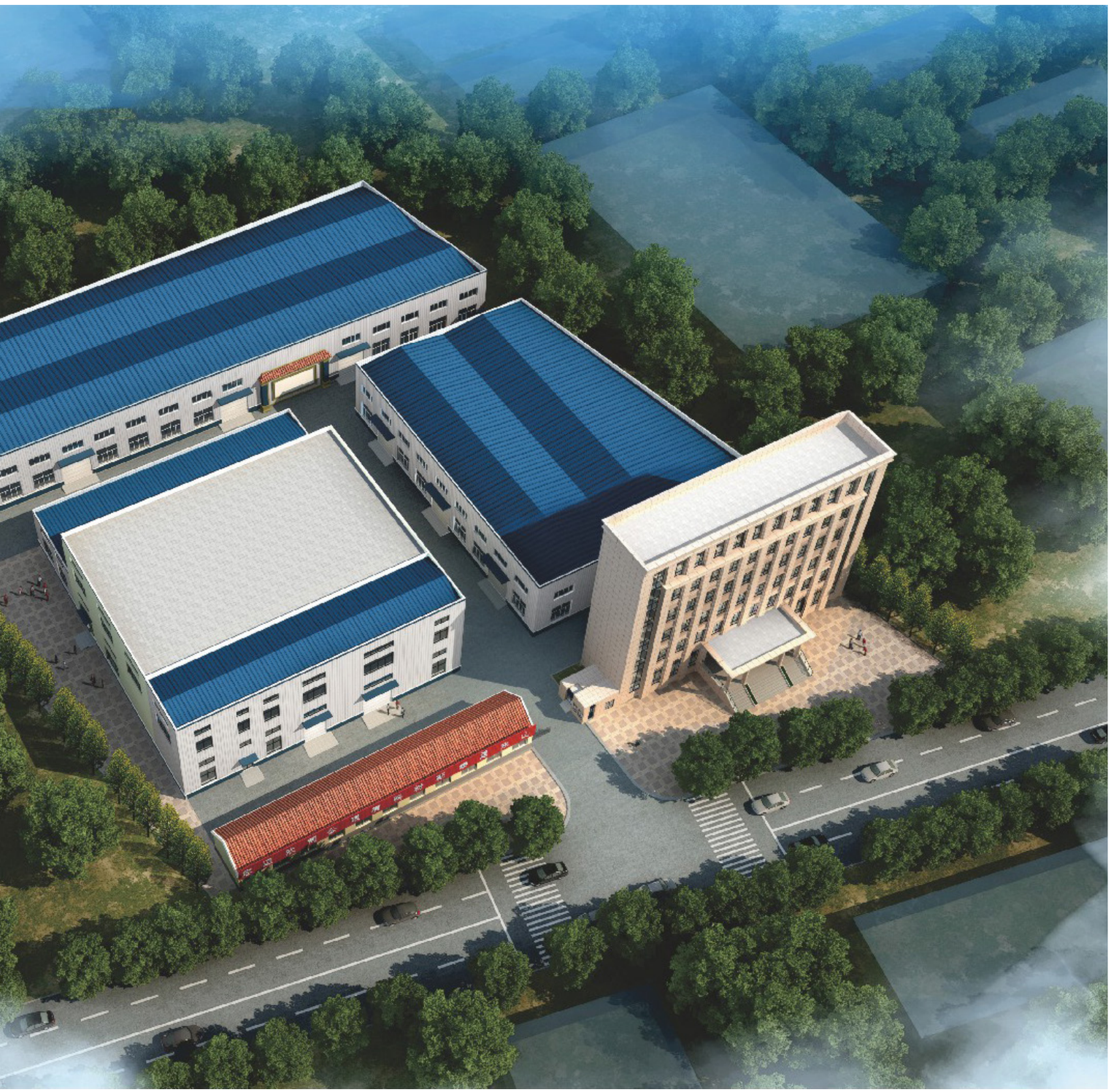
The brand created by the company - g", was founded in 2019. In the fierce market competition, g is aggressive, brave to meet market challenges, constantly pioneering and innovating, while improving product quality, but also innovating in product shape, color, etc., excellence, adopting advanced architectural decorative art concepts, advocating modern life, and creating a perfect art space for you.

The company operates in strict accordance with the standards and requirements of 1S09001:2000 quality assurance system elements, and inspects and checks the quality of products in the process of product production control.

The company has long adhered to the business philosophy of "quality first, integrity first, first-class service", and wholeheartedly built a high-quality brand. The company has advanced automatic spraying equipment and the most advanced temperature control furnace, liquefied gas combustion system and German pretreatment process technology, CNC laser plate machine, CNC bending machine, CNC cutting machine, tower CNC punch, with an annual output of 1 million square meters of spraying aluminum plate production and processing capacity, in the domestic counterparts can be called a large-scale, functional, advanced equipment, service in place enterprises.

Since its promotion, g" brand has successfully designed and undertaken a number of projects, with its excellent quality and excellent service, it has won a high degree of trust and recognition in the market, and is welcomed and loved by our customers.





企业文化
CORPORATE CULTURE

管理理念 Management philosophy

诚实做人、专业做事；
Be honest and professional;

企业使命 Corporate Mission

成就健康企业，塑造豪鸿人生；
Achieve a healthy enterprise and shape [redacted]s life;

价值理念 Value concept

为客户创造多元化价值；
Create diversified value for customers;

企业愿景 Corporate vision

构建优势产业体系，铸造行业领导地位；
Build a superior industrial system and cast a leading position in the industry;

质量理念 Quality concept

0 缺陷 +100% 服务、质量为本、信誉是金；
0 defect + 100% service, quality-oriented, reputation is gold;

企业核心价值观 Corporate core values

简捷务实，致力产业，创造价值；
Simple and pragmatic, committed to industry, create value;

研发理念 R&D concept

绝不对市场说“不”，订单就是命令、市场是检验工作好坏的唯一标准、
全国 24-72 小时供货，出厂严格履行“三包”制度市场投诉 24-48 小时予以回复；
Never say "no" to the market, the order is the order, the market is the only standard for the inspection work, the national 24-72 hours supply, the factory strictly implements the "three guarantees" system market complaints 24-48 hours to reply;

以坚实的企业文化
推动市场理念的发展

PROMOTE THE DEVELOPMENT OF MARKET CONCEPT WITH SOLID CORPORATE CULTURE



企业组织架构
ORGANIZATIONAL STRUCTURE

完善的组织架构体系
PERFECT ORGANIZATIONAL STRUCTURE SYSTEM

豪鸿公司拥有完善的组织架构体系，以合理的组织架构为基础，构筑了内部、外部的两大服务体系，确立了纵向和横向相结合的管理模式，创建了通畅有效的沟通渠道，形成了严格的产品质量控制和售后服务体系；同时也完善了各项工作的流程化、信息化、制度化。

company has a perfect organizational structure system, based on a reasonable organizational structure, it has built two major service systems internal and external, established a combination of vertical and horizontal management mode, created smooth and effective communication channels, and formed a strict product quality control and after-sales service system; At the same time, it also improves the process, informationization and institutionalization of various work.




董事长
Chairman of the enterprise
总经理
managing director
生产副总经理
Deputy General Manager of Production
技术部
Technical Department
研发部
R&D Department
设计部
Design Department
生产部
Production Department
钣金车间
Sheet metal workshop
喷涂车间
Spray shop
工艺车间
Process workshop
蜂窝板车间
Honeycomb panel workshop
组装车间
Assembly workshop
工程部
Engineering Department
财务部
Finance Department
会 计
Accounting
统 计
Statistics
采 购
Procurement
行政人事部
Administration and Personnel Department
市场副总经理
Deputy General Manager of Marketing
营销部
Marketing Department
国内部
China
国际部
International Department

部分设备展示

SOME EQUIPMENT DISPLAYS

自动生产化

AUTOMATED PRODUCTION

生产自动化能最大程度提高工作效率，减少手工带来的误差从而提升产品质量及降低生产成本。因此我们不断引进国内外先进的生产技术和生产设备，同时不断借鉴国外完善的生产管理体系，使我们的生产力得到大大的提高及能保证质量的长期稳定。

Production automation maximizes work efficiency and reduces manual errors, thereby improving product quality and reducing production costs. Therefore, we continue to introduce advanced production technology and production equipment at home and abroad, and at the same time continue to learn from foreign perfect production management system, so that our productivity has been greatly improved and the long-term stability of quality can be guaranteed.

















切割、下料
Cutting, Cutting

→

冲角（冲孔、开槽）
Punching angle (punching, grooving)

→

成型（折弯、滚弧）
Forming (bending, arc rolling)

焊接
welding

←

打磨
burnish

←

组装
assemble

←

抛光
polished

←

检测
inspection

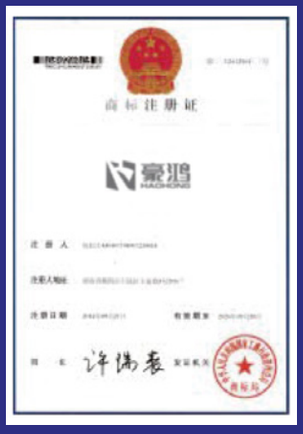
←

喷涂
coating

荣誉证书

CERTIFICATE OF HONOR































产品检验报告

PRODUCT INSPECTION REPORT



检 验 报 告

TEST REPORT

中心编号(N)：WT2023B01B01200

委托单位：广东荣鸿建材科技有限公司

样品名称：氟碳涂铝单板

检验类别：委托检验

国家建筑材料测试中心

National Research Center of Testing Techniques for Building Materials



国家建筑材料测试中心

（National Research Center of Testing Techniques for Building Materials）

检 验 报 告

（Test Report）

中心编号：WT2023B01B01200 第 1 页 共 3 页

样品名称	氟碳涂铝单板	检验类别	委托检验
委托单位	广东荣鸿建材科技有限公司	商 标	荣鸿
生产单位	广东荣鸿建材科技有限公司	样品状态	样品完好
来样日期	2023 年 02 月 09 日	样品数量	300mm × 500mm 1 块 75mm × 150mm 15 块
生产日期/批号	——	型号规格	氟碳涂铝单板 2.2# 室外共
检验依据	各检验项目检验依据详见检验页。		
判定依据	GB/T 23443－2009《建筑幕墙用铝单板》		
检验项目	外观质量、厚度等共 10 项，详见第 2-3 页。		
检验结论	*经检验，送检样品光泽度偏差检验结果见第 2 页，其余委托检验项目检验结果符合 GB/T 23443－2009 中室外用氟碳涂料型涂层铝材技术要求，检验结果见第 2-3 页。*		
附注：（此处空白）			

签发日期：2023 年 02 月 [illegible] 日

批准： 审核： 编制：

检验单位地址：北京市朝阳区管庄中国建材院南楼 电话：65728538 邮编：100024



国家建筑材料测试中心

（National Research Center of Testing Techniques for Building Materials）

检 验 报 告

（Test Report）

中心编号：WT2023B01B01200 第 2 页 共 3 页

序号	检验项目		标准要求（室内用）	检验结果	单项结论	检验依据
1	外观质量		板材边和边切齐，无毛刺、裂边、板材不允许有开裂，外观应整洁，色泽基本一致，无明显划伤、装饰面不得有明显压痕，印花和印白等残缺，无明显色差、油蜡光式痕、裂纹、气泡、夹杂物或其他有害缺陷。	板材边和边切齐，无毛刺、裂边、板材无开裂等，外观整洁，色泽基本一致，无明显划伤、装饰面不得有明显压痕，印花和印白等残缺，无明显色差、油蜡光式痕、裂纹、气泡、夹杂物或其他有害缺陷。	符合	GB/T 23443-2009 7.2 GB/T 9761-2008
2	厚度		平均厚度 ≥4.0mm 最小局部厚度 ≥3.6mm	平均厚度 5.5mm 最小局部厚度 4.8mm	符合	GB/T 23443-2009 7.4 GB/T 4957-2003
3	光泽度偏差		光泽度 <30	≤ 5	——	GB/T 23443-2009 7.5 GB/T 9754-2007
			30 ≤ 光泽度 <70	≤ 7		
			光泽度 ≥70	≤ 10		
4	附着力	干式	划格法 0 级	划格法 0 级	符合	GB/T 23443-2009 7.6.1 GB/T 9286-1998 (2004)
		湿式	划格法 0 级	划格法 0 级	符合	GB/T 23443-2009 7.6.2 GB/T 9286-1998 (2004)
		沸水煮	划格法 0 级	划格法 0 级	符合	GB/T 23443-2009 7.6.3 GB/T 9286-1998 (2004)

检验单位地址：北京市朝阳区管庄中国建材院南楼 电话：65728538 邮编：100024



国家建筑材料测试中心

（National Research Center of Testing Techniques for Building Materials）

检 验 报 告

（Test Report）

中心编号：WT2023B01B01200 第 3 页 共 3 页

序号	检验项目	标准要求（室内用）	检验结果	单项结论	检验依据
5	铅笔硬度	≥ H	2H	符合	GB/T 23443-2009 7.7 GB/T 6739-2006
6	耐盐酸（5%HCl(V/V)，24h）	无变化	无变化	符合	GB/T 23443-2009 7.8.1.3
7	耐碱	无起皮等变化，△E≤5.0	无起皮等变化，△E＝0.2	符合	GB/T 23443-2009 7.8.1.2
8	耐砂浆性	无变化	无变化	符合	GB/T 23443-2009 7.8.2
9	耐霉利性	无滴落	无滴落	符合	GB/T 23443-2009 7.8.3.1
10	耐冲击性	正反面铝材凹凸氟饮涂层无起皮和产生	正反面铝材凹凸氟饮涂层无起皮和产生	符合	GB/T 23443-2009 7.11 GB/T 1732-1993 (2004)

备注：（此处空白）

本报告结束

检验单位地址：北京市朝阳区管庄中国建材院南楼 电话：65728538 邮编：100024



说 明

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No.1 Guanzhuang Dongli,Chaoyang District, Beijing 100024, P.R. China.

邮编（Post Code）：100024

电话（Tel）：(86-10) 65728538　51167681 / 7983 / 7984

传真（Fax）：(86-10) 65715991

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电子邮箱（E-mail）：hangmu@ctc.ac.cn

部分工程案例

PART OF THE ENGINEERING CASE

随着绿色环保理念的深入人心，以及时代个性化建筑装饰的需求，铝单板已成为建筑工程中使用非常广泛的新型建筑装饰材料。

铝单板性能优异，可塑性好，使用寿命长，实用又美观，被广泛应用于火车站、地铁站、机场、商场、酒店、医院、学校、会议厅、体育馆等建筑场所。

With the deepening of the concept of green environmental protection and the needs of personalized building decoration of the times, aluminum veneer has become a new type of building decoration material widely used in construction projects.

Aluminum veneer has excellent performance, good plasticity, long service life, practical and beautiful, and is widely used in railway stations, subway stations, airports, shopping malls, hotels, hospitals, schools, conference halls, gymnasiums and other building places.











铝单板氟碳 / 粉末喷涂

ALUMINUM VENEER FLUOROCARBON/POWDER COATING

氟碳喷涂是将金属件 (如铝单板) 表面经过严格的铬化处理后进行喷涂，从而使金属件的装饰面有一层均匀的涂层，使产品表面平整光滑，色泽均匀，对金属件起到装饰和保护的作用，粉末喷涂是利用静电喷涂的原理，把干燥粉末状物吸附在金属件 (如铝单板 上，经过 200C 以上高温烘烤后，粉状物固化成为一层大于 60 微米厚坚固光亮的涂层，对金属件起到装饰和保护的作用。

Fluorocarbon spraying is to spray the surface of metal parts (such as aluminum veneer) after strict chromation treatment, so that the decorative surface of metal parts has a uniform coating, so that the surface of the product is smooth and smooth, uniform color, decorative and protective role for metal parts, powder unspraying is the use of the principle of electrostatic spraying, the dry powder adsorbed on metal parts (such as aluminum veneer, after high temperature baking above 200C, the powder solidifies into a layer of stronger and bright coating greater than 60 microns thick, It plays a decorative and protective role for metal parts.

HH001 中文名称
HH001 Sparkle Silver

HH002 中文名称
HH002 Bright pearl Silver

HH003 中文名称
HH003 Liht Blue Black

HH004 中文名称
HH004 Shoreline

HH005 中文名称
HH005 Blue

HH006 中文名称
HH006 Turquoise

HH007 中文名称
HH007 Medium Grey

HH008 中文名称
HH008 Bose Quartz

HH009 中文名称
HH009 white Gold

HH010 中文名称
HH010 white Gold

HH011 中文名称
HH011 Metallic Gold silver

HH012 中文名称
HH012 Coarse Champagne

HH013 中文名称
HH013 Red champagne

HH014 中文名称
HH014 Gold watch

HH015 中文名称
HH015 Light Gold

HH016 中文名称
HH016 Arabian Blue

HH017 中文名称
HH017 Lighe white

HH018 中文名称
HH018 Brick Ivory

HH019 中文名称
HH019 Onerital Ivory

HH020 中文名称
HH020 Yellow

HH021 中文名称
HH021 Light Green

HH022 中文名称
HH022 Liht Blue

HH023 中文名称
HH023 Horizon Blue

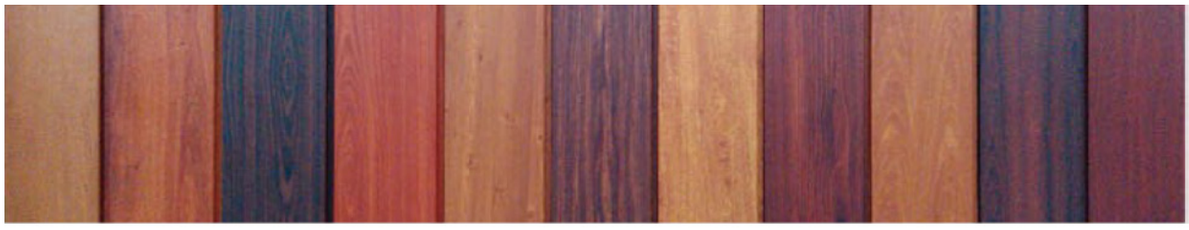
HH024 中文名称
HH024 Light Blue

HH025 中文名称
HH025 Red-3coat

仿木纹色样

IMITATION WOOD GRAIN COLOR PATTERN

仿木纹 / 石纹铝单板是一种效仿大自然而又超越大自然的产品。它独特优点在于：丰富的色彩和表面纹理效果，能长期在日照下不褪色不龟裂、不脱落的杰出性能。



HH001



HH002



HH003



HH004



HH005



HH006



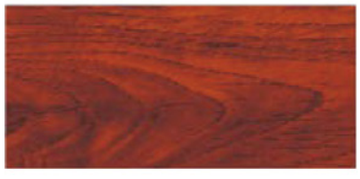
HH007



HH008



HH009



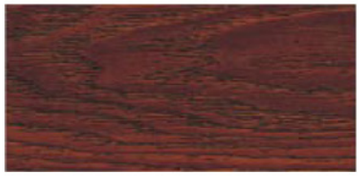
HH010



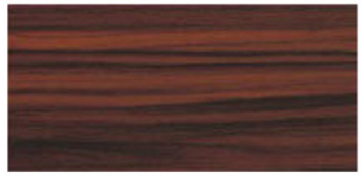
HH011



HH012



HH013



HH014

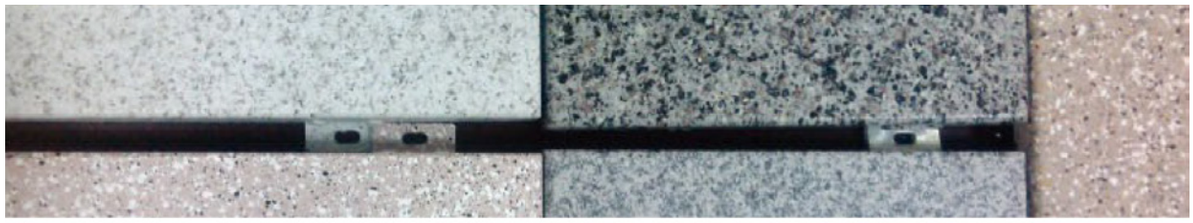


HH015

仿石纹色样

IMITATION STONE PATTERN

Imitation wood grain/stone grain aluminum veneer is a product that imitates nature and transcends nature. Its unique advantages are: rich color and surface texture effects, and outstanding performance that can not fade, crack or fall off in sunlight for a long time.

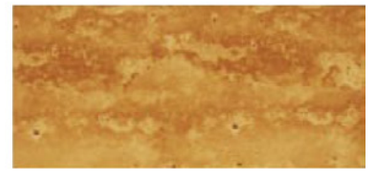




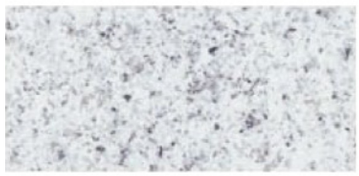
HH201



HH202



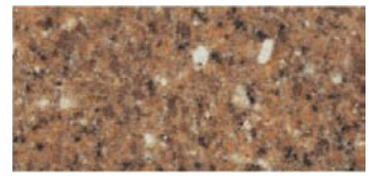
HH203



HH204



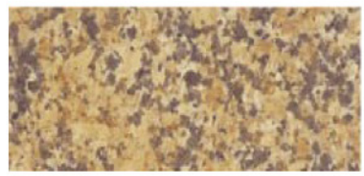
HH205



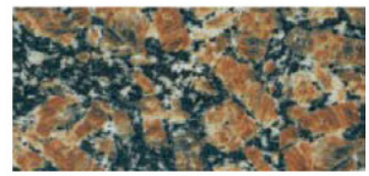
HH206



HH207



HH208



HH209



HH210



HH211



HH212



HH213



HH214



HH215

铝单板的材质及构造

MATERIAL AND STRUCTURE OF ALUMINUM VENEER

铝单板采用优质高强度铝合金板材其常用原度为 2.0，2.5，3.0 型号为 3003，状态为 H24。其构造主要由面板、加强筋和角码组成。角码可直接由面板折弯、冲压成型，也可在面板的折边上安装角码。加强筋与板面后的电焊螺钉连接，使之成为一个牢固的整体，极大增强了铝单板的强度与刚性，保证了长期使用中的平整度及抗震能力。如果需要隔音保温，可在铝板内侧安装高效的隔音保温材料。

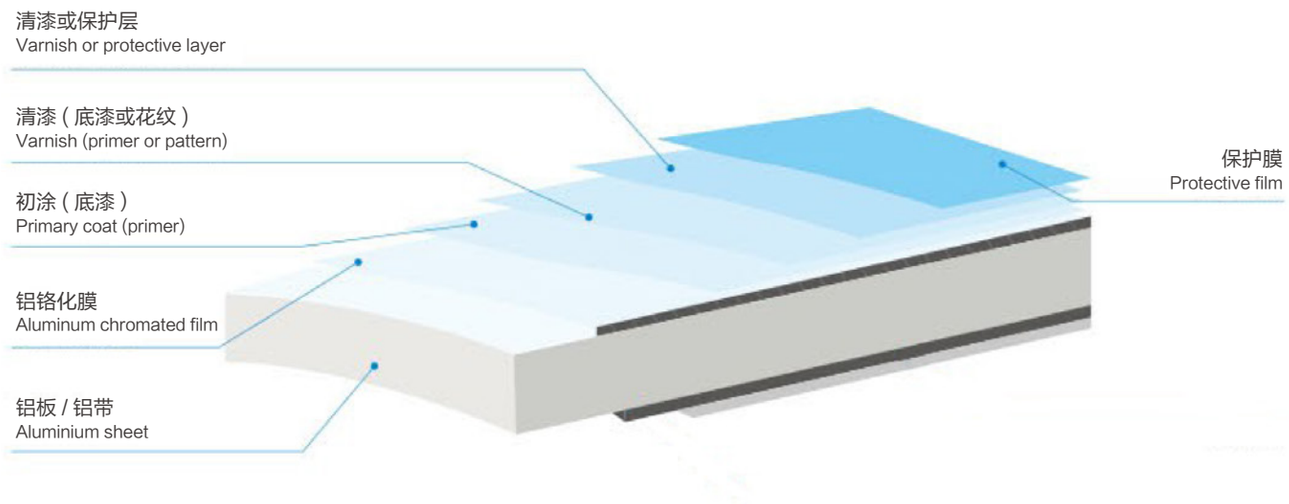
The aluminum veneer adopts high-quality high-strength aluminum alloy plate, and its common original degree is 2.0, 2.5, 3.0, the model is 3003, and the state is H24. Its construction is mainly composed of panels, stiffeners and corner codes. The corner code can be bent directly from the panel, stamped and formed, or it can be installed on the folded edge of the panel. The stiffener is connected with the welding screw behind the plate surface, making it a solid whole, which greatly enhances the strength and rigidity of the aluminum veneer, and ensures the flatness and seismic resistance in long-term use. If sound insulation is required, efficient sound insulation materials can be installed on the inside of the aluminum plate.

铝单板重量轻、强度高、防水、防污、防蚀、加工性能好、维护费用低、使用寿命长。铝单板可加工成各种弧形及异形，表面可喷涂成多种色彩，可雕刻成各种美丽的图案；并且可以和玻璃幕墙等组合成不同的外观形体，使建筑物更有高贵典雅的风格。

Aluminum veneer is light in weight, high in strength, waterproof, anti-fouling, anti-corrosion, good processing performance, low maintenance cost and long service life. Aluminum veneer can be processed into various arcs and special-shapes, the surface can be sprayed into a variety of colors, and can be carved into a variety of beautiful patterns; And it can be combined with glass curtain walls to form different appearance shapes, making the building more noble and elegant style.

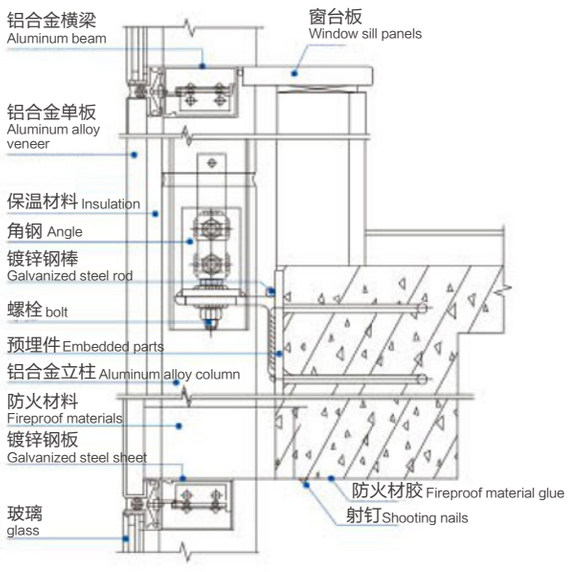


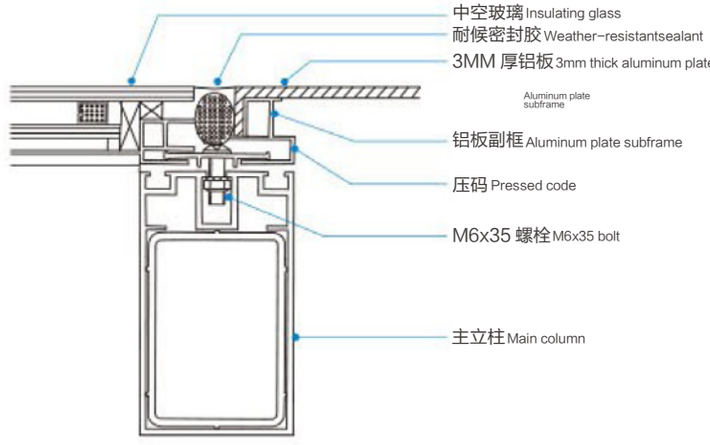
铝单板结构图
Aluminum veneer structure



铝单板与玻璃幕墙相节点图

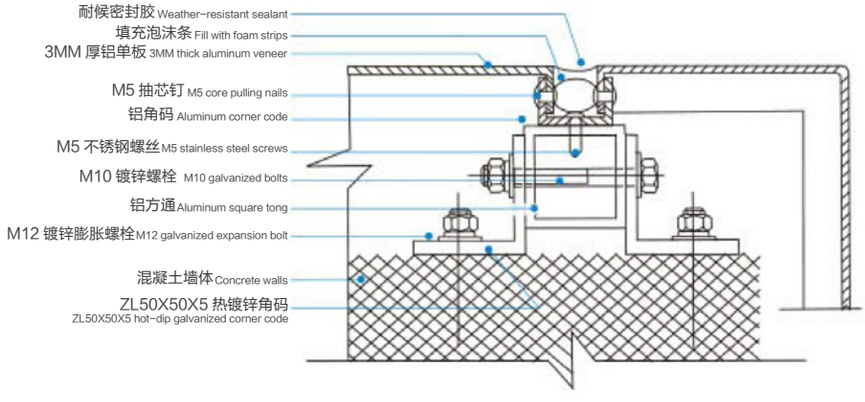
Aluminum veneer and glass curtain wall phase node diagram

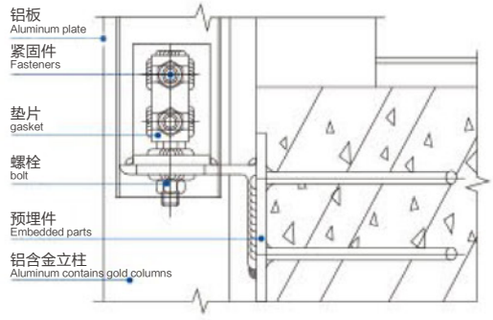




铝单板与墙体的节点图

Node diagram of aluminum veneer and wall





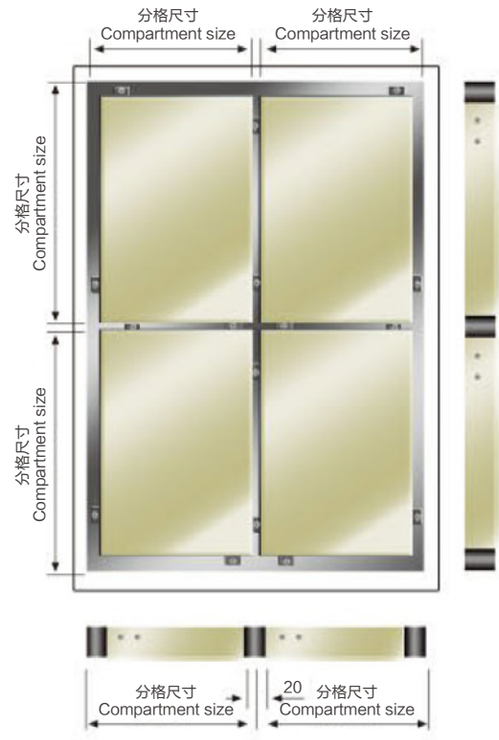
平面有缝铝单板

FLAT SEAM ALUMINUM VENEER



利用铝单板两个角码之间的空隙，加以螺丝固定，然后封胶，即可完成，这是铝单板最常用的一种安装形式，铝单板与铝单板之间形成线，使平整中多一份流动的格调，利用各种不同色调的密封胶，形成不同色调的线条，可与铝单板色彩形成协调或对比，因情景氛围而定

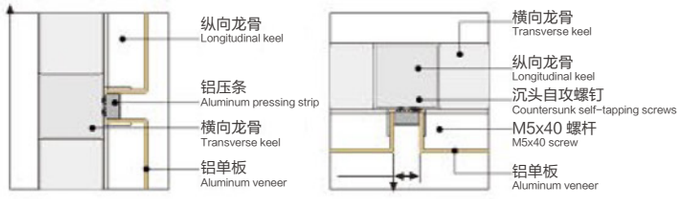
The use of the gap between the two corner codes of the aluminum veneer, screw fixation, and then sealing, can be completed, which is the most commonly used installation form of aluminum veneer, aluminum veneer and aluminum veneer between the formation of a line, so that flat in more flowing style, the use of a variety of different tones of sealant, the formation of different tones of lines, can be coordinated or contrasted with the color of aluminum veneer, depending on the mood



墙面铝单板安装示意图
镶条（明缝）式安装

Schematic diagram of wall aluminum veneer installation
Inlay (exposed stitching) installation





墙面铝单板（有缝式）安装说明：

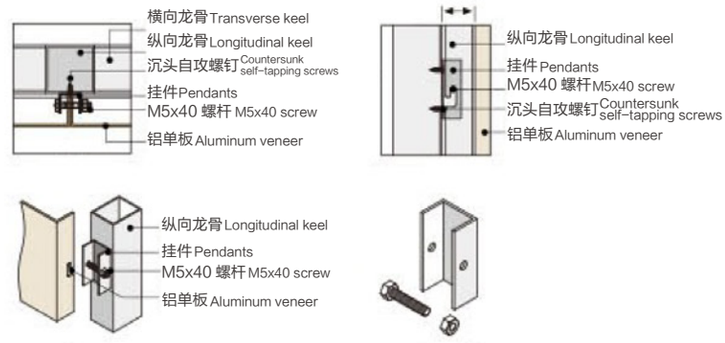
1、按设计图纸要求放样出龙骨及铝单板完成面的线；
2、确定施工方向，按分格尺寸要求安装好主、副龙骨（方钢龙骨）；确保龙骨面的平整度；
3、安装铝单板：按更求安装好铝单板，四周角码均用自攻螺钉固定，再镶入铝压条；
4、安装过程应保持手清洁，不能有汗水。油污等不洁现象；

Wall aluminum veneer (seamed) installation instructions:
1. According to the requirements of the design drawings, loft out the line of the finished surface of the keel and aluminum veneer;
2. Determine the construction direction, and install the main and auxiliary keels (square steel keels) according to the requirements of the sub-grid size; Ensure the flatness of the keel surface;
3. Install aluminum veneer: install the aluminum veneer according to the requirements, and the corner codes around it are fixed with self-tapping screws, and then embedded in the aluminum pressing strip;
4. Keep your hands clean and no sweat during the installation process. unclean phenomena such as oil stains;

平面无缝铝单板

FLAT SEAMLESS ALUMINUM VENEER



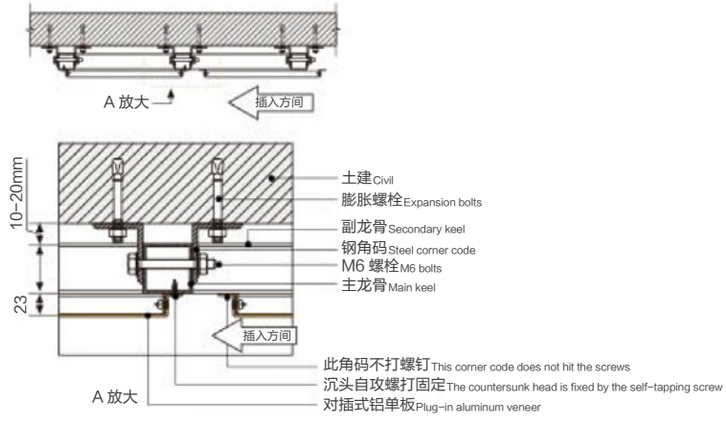


结构示意图　　挂件及螺栓

平面无缝铝单板是在安装中使板与板之间的间距尽量缩小，使其整体起着平整、流畅的视觉效果；情景交融，精致动人让平整体现铝金属本质的肌理，触手可及的光泽散发着永久的亮丽与洁净，为建筑提升档次，为环境创造灵性的视觉盛宴！

Plane seamless aluminum veneer is to minimize the spacing betweenboards in installed manipulation, to play the whole flat, smooth , visualeffects, scene blend, exquisitely, so smooth aluminum reflects thetexture of the metal, the gloss within touch sent forth a permanentbright and clean, to improve the grade of buildings, for the environmentto create spiritual visual feast!





墙面铝单板（对插式）安装说明：

1、按设计图纸要求放样出龙骨及铝单板完成面的线；
2、确定施工方向，按分格尺寸要求安装好主、副龙骨（方刚龙骨）；确保龙骨面的平整度，
3、安装铝单板：注意安装顺序，如图则是从左至右、从下至上的顺序进行安装，每件板左边的角码均插及左边铝板折边及龙骨之间的缝隙中，右边及上边的角玛均用沉头自攻自钻螺钉固定；（板缝隙可调节，室内可无缝隙自然拼装。）

Wall aluminum veneer (plug-in) installation instructions:
1. According to the requirements of the design drawings, loft out the line of the finished surface of the keel and aluminum veneer;
2. Determine the construction direction, and install the main and auxiliary keels (square gang keels) according to the requirements of the sub-grid size; Ensure the flatness of the keel surface,
3. Installation of aluminum veneer: pay attention to the installation order, as shown in the picture is installed from left to right, bottom to top order, the corner code on the left of each plate is inserted into the gap between the folding edge of the left aluminum plate and the keel, and the right and upper corner horses are fixed with countersunk white tapping white diamond screws; (The gap between the plates can be adjusted, and the interior can be assembled naturally without gaps.))

包柱铝单板

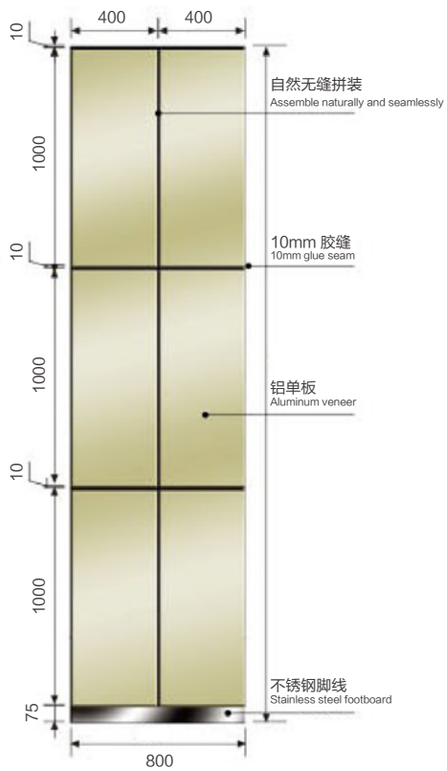
PILLAR-CLAD ALUMINUM VENEER





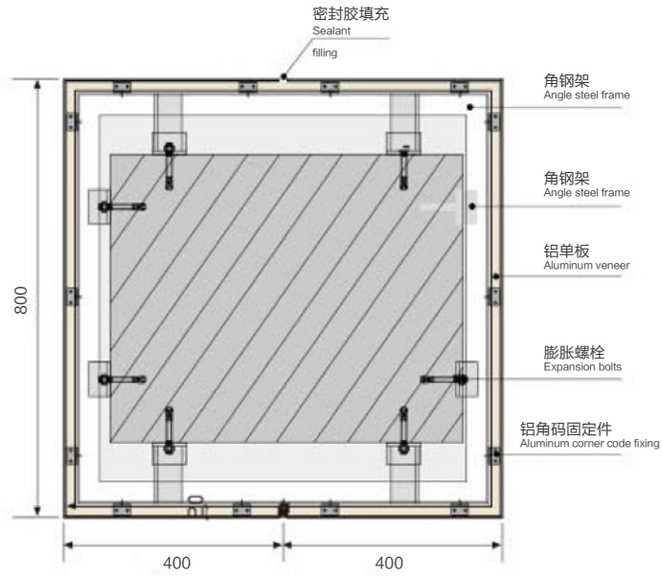
原本是空间障碍的方柱，通过设计师的装饰变成一道亮丽的风景线这就是装饰的魅力，也是建材的功劳；方型有缝包柱铝单板为单一的墙体增添几分独特的视觉亮点。

The square column, which was originally a space obstacle, has become a beautiful landscape through the designer's decoration, which is the charm of decoration and the credit of building materials; Square sewn pillared aluminum veneer adds a unique visual highlight to a single wall.



方柱子立面图 (干挂式有缝)

Square column elevation (dry-hanging type with seams)



方柱子剖面图 (干挂式)

Square column profile (dry-hanging)

无缝包柱铝单板

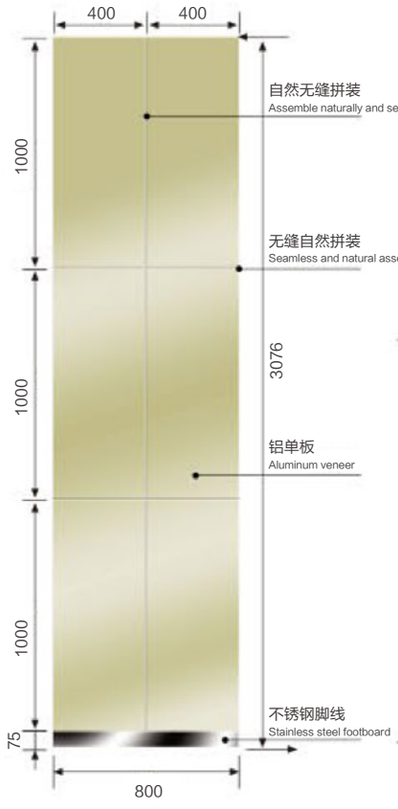
SEAMLESS CLAD PILLAR ALUMINUM VENEER



方型无缝包柱的应用为大型装饰场所提供了一个整体简洁的视觉空间；尤其是变幻莫测的建筑设计，平整反而成了视觉另一缓冲点，常常给人们带来平凡的惊喜与享受！

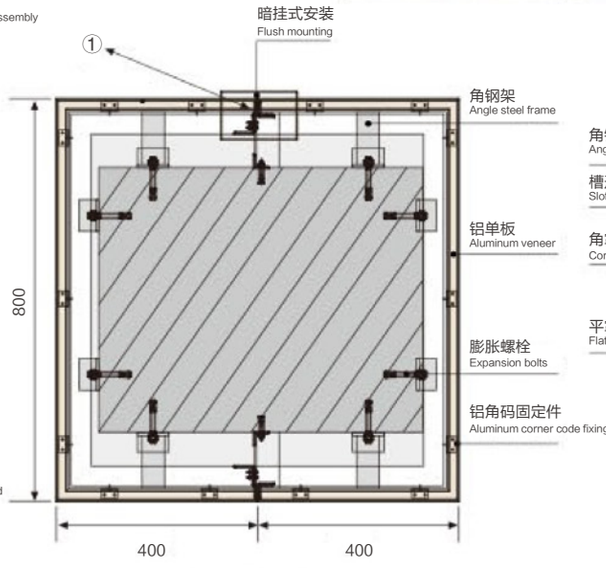
The application of column of the square seamless packagefor large decorative space provides a the overall simplevisual space; especially the vagaries of architectural design,the flat has become a visual another buffer point, oftengave rise to an extraordinary surprise and enjoyment!





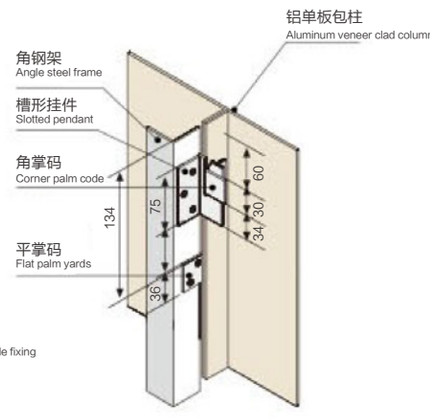
方柱子立面图 (无缝)

Square column elevation (seamless)



方柱子剖面图

Square column profile



①放大效果图

(1) Enlarge the rendering

圆型有缝包柱

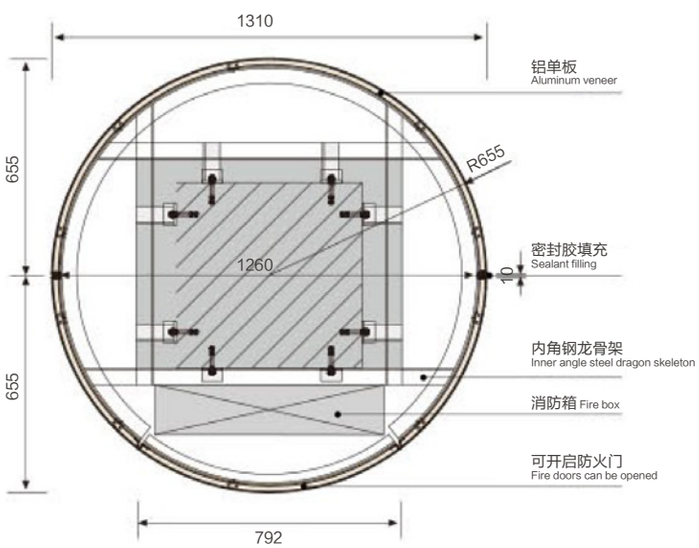
ROUND TYPE WITH SEAMED WRAPPED COLUMNS





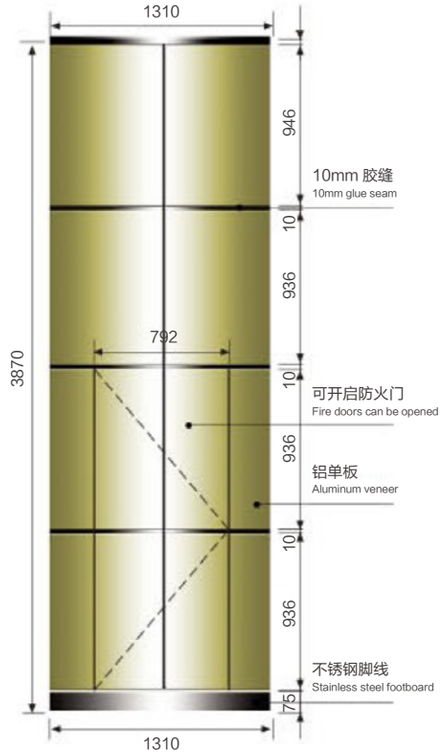
圆型有缝包柱把公众视觉立体化作为一个基点，在建筑空间美学中设计材料与造型的产生，不仅是某个意象不期而遇，更是灵感与现实的碰撞；并且可以肯定这种创意的应用也是可以持续延伸。

The circular slit package column is to the public three-dimensionalvisual as a basis points, in the architectural space aesthetics, the comeinto being of design materials and modeling, not only an image meetby chance, but also the inspiration and reality collision; and certainlykinds of creative applications are also continuing to extend.



圆形柱子剖面图 (干挂式)

Circular column profile (dry-hanging)

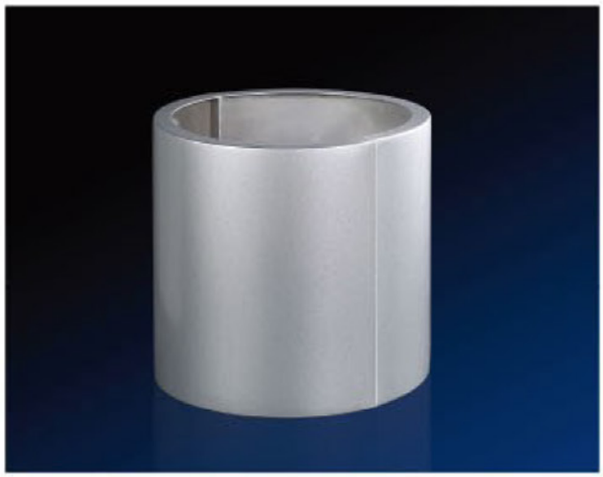


圆形柱子立面图 (干挂式)

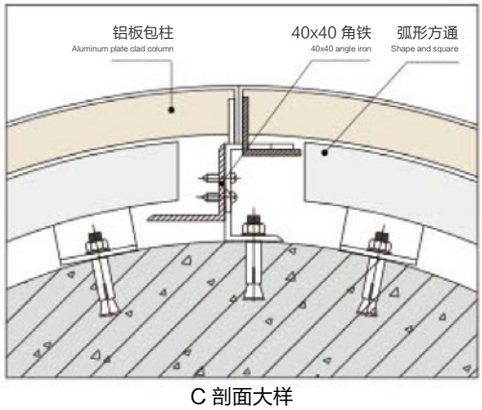
Circular column elevation (dry-hanging type)

圆型无缝包柱

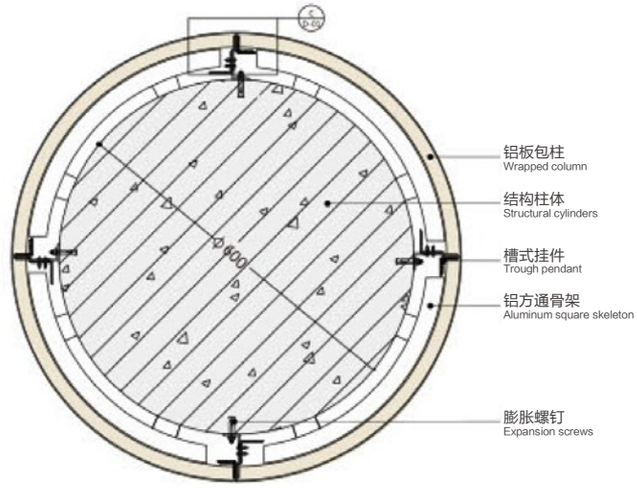
ROUND SEAMLESS WRAPPED COLUMN



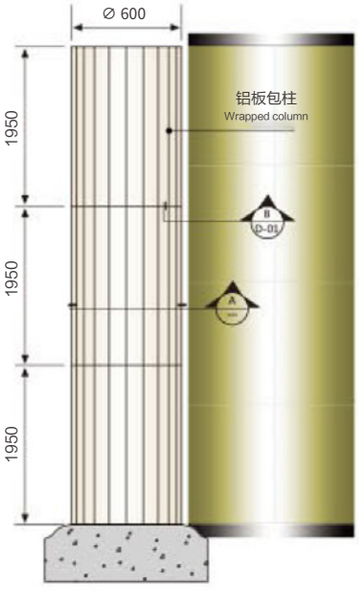




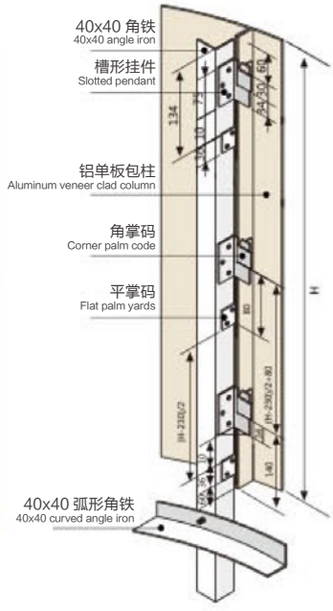
C 剖面大样
Large sample of C profile

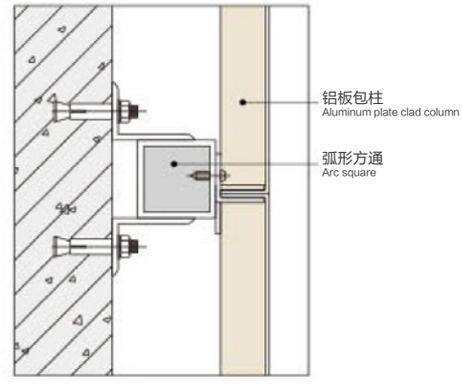


A–A 剖面
A–A profile



包柱立面图
Column elevation



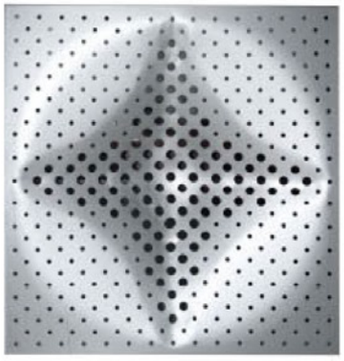


B–B 剖面
B–B profile

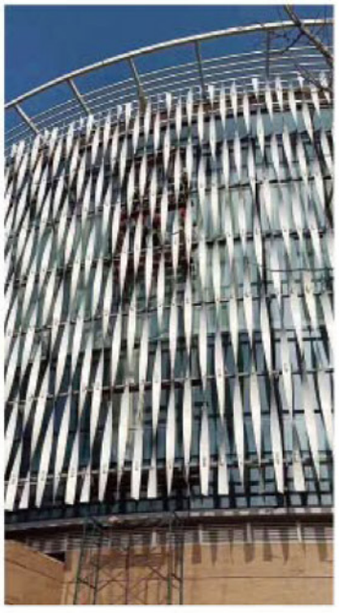
双曲铝单板

DOUBLE-CURVED ALUMINUM VENEER

双曲面铝单板产品造型奇特、工艺复杂，公司采用德国进口万能成型机，配合专用数控双曲面软件生产出成品，产品精确度高，表面平滑，可任意定制双曲面、球形面，制造出独特美观的立体造型。公司利用蒙皮拉伸技术和三维建模原理解决了行业的技术难点，板面效果比常见的通过分割焊接生产的双曲板平整度好，安装效果比“以直代曲”等的双曲弧线更圆滑，公司成为行业中为数不多的双曲面、异型铝单板的企业之一，双曲产品为设计师提供了更为广阔的设计空间，充分展示了双曲面铝单板在金属幕墙上无可替代的特点。







Hyperbolic aluminum veneer products are peculiar shaped, complex proces, the company use universal molding machines imported fromGermany, with special CNC hyperbolic Software to produce the fnished products during short time, the product with high precision and smootsurface, can be customized hyperboloid and spherical surface at will, creating a unique Beautiful three-dimensional modeling. Zhengyi companyuse skin stretching technique and three-dimensional modeling principle to solve the technical dificulties of the industry, the board effect i?much better than the usual hyperbolic plate by dividing welding production in flatness more sieek in instalation effect better than the’ replactcurves by straight lines' and any other hyperbolic arc lines, the Zhengyi company became one of the few manufacturing enterprise foihyperbolic abnormal shape aluminum panel in the industry. The hyperbolic products provide desianers a broader design Space, fully show:hyperboloid aluminum veneer irreplaceable characteristics on metal curtain wall .

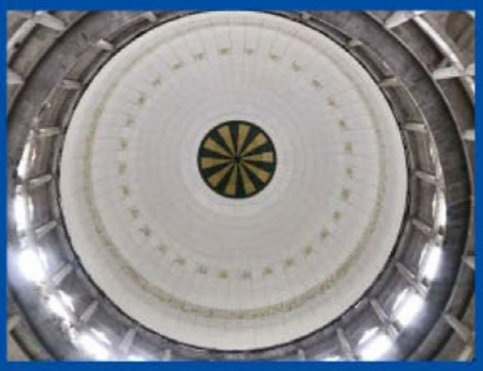








独特造型
金属视觉





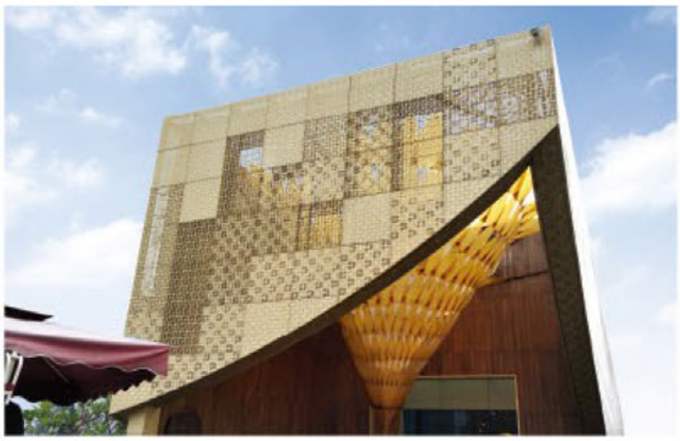


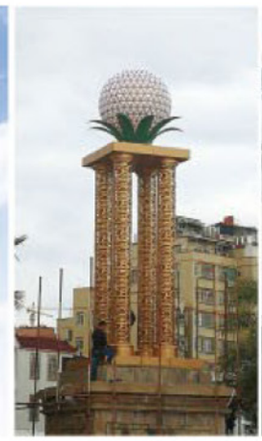
艺术镂空铝单板

ARTISTIC OPENWORK ALUMINUM VENEER

镂空铝单板可加工成各种规格和不同形状的非标铝板，镂空铝单板可根据设计师的要求，订制成各种天花、幕墙、包柱等的图案。公司全新引入镂空切割技术，将铝板按设计师的图形进行切制，工艺准确性高，不损伤表面，加工工件时在冷却状态切制，不变形，切割面平滑不刺手，无毛刺、切割缝小，工艺精细，准确度高，质量好，适合生产各种精度高、复杂图、大幅面、异形图，曲线图等各种复杂的图案切割。

Pattern hollow aluminum veneer can be processed into various specifications and diferent shapes of non-standard aluminum veneerhollow aluminum veneer may acording to the requirements of designers, customized into a variety of ceilings,curtain walls and columns.The company introduced a new hollow cutting technology, cut the aluminum plate according to the designer’ s graphs, high accuracyin process, does not damage the surface of the workpiece during the cuting in a cooled state, no deformation, cut surface is smoottand not sting, no bur,small cutting seem ,fine process , high accuracy, good quality, suitable for the production of complex patternsof various high precision, complex figure, large format, special charts, graphs and other cutting.



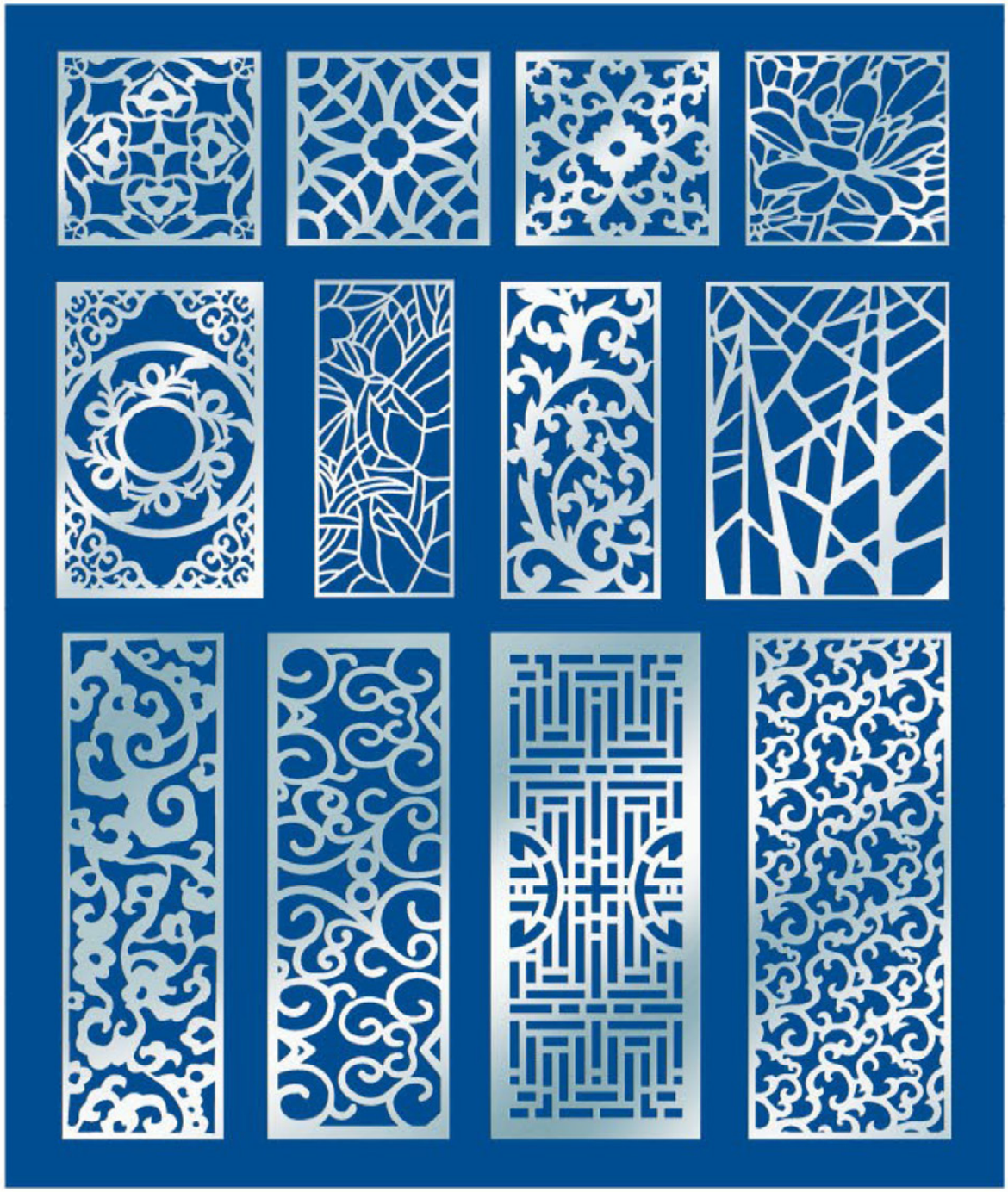






随着科技的进步与工艺的成熟，雕刻板被广泛应用于金属幕墙、天花板设计中，艺术雕刻板装饰性较强，而且通过灯光的照射，折射出变幻莫测的绚丽空间。我公司引进多台高精度的雕刻机，并开发设计了多种雕刻图案，也可以根据客户提供图案进行雕刻。

As the advancement in technology and process mature, carved panels are widely used in metal curtain wal, celing design, artsculpture panels are highly decorative, and by the light irradiation, a reflection of the vagaries of the brilliant space. The companyintroduced sets of high-precision engraving machine, develop and design a variety of carving patterns, customers can also providethe pattern for carving.

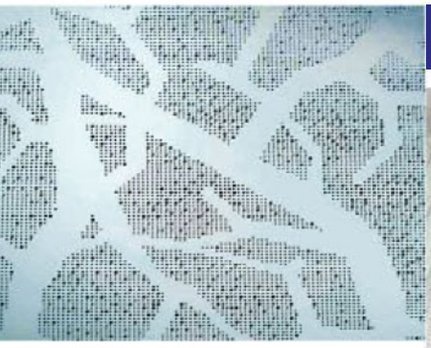


冲孔吸音铝单板

PUNCHED SOUND-ABSORBING ALUMINUM VENEER

冲孔吸音铝单板是采用电脑数控冲压设备，选优质的金属材料，以不同规格或花款的冲孔工艺来美化金属板面，能舒缓由于封闭式所造成的压抑感，使产品若隐若现有开阔视野空间的感观性。产品的特色与优点：外观优雅，防火防潮安装方便，经久耐用，吸音隔音，不受正负风压影响，有利于通风口或其他设备的散热，透光照明等特点常规孔径：∅ 1.8- ∅ 2.3、∅ 2.5- ∅ 5.0、∅ 6.0- ∅ 10、∅ 12- ∅ 20、∅ 25- ∅ 60 等 (更详细参数请参阅冲孔规格表) 适用于：天花吊顶、墙板、包柱板、包梁板，音乐室，播音室，新闻中心，体育馆，射击馆等。

Punching aluminum veneer using CNC stamping equipment, selected high-quality metal materials with diferentspecifications or style to beautify the metal plate surface in the punching process, can relieve the sense of oppressiondue to an enclosed design, broaden their horizons and feel of the space. Features and virtues of punching soundabsorbing aluminum veneer elegant appearance, fireproof and dampproof, easy installation, durable in use, soundabsorbing & sound insulation, not affected by wind pressure, in favor of heat dissipation of vents or other equipmentslight and lighting features.Conventional Aperture: ∅ 1.8- ∅ 2.3, ∅ 2.5- ∅ 5.0, ∅ 6.0- ∅ 10, ∅ 12- ∅ 20, ∅ 25- ∅ 60,etc. See the more detailed parameterspunching specification table)Applies to: ceiling, wall panels, package columns boards, package slab, music room, studio, news center, gymnasium shooting hall etc.









吸音是指不再被天花板反射的那部分声音

Sound absorption refers to the part of the sound that is no longer reflected by the ceiling



隔音是指控制声音在天花板上方铝通的的两个房间之间的传递

Sound insulation refers to controlling the transmission of sound between two rooms above the ceiling



降噪是指控制从天花板上的管道造成楼上的地板传来声音

Sound insulation refers to controlling the transmission of sound between two rooms above the ceiling

我们关注的是语言清晰度、噪音或声音质量，综合考虑材料的吸音（材料表面），隔音（墙、地板、天花板）和背景噪音，才能使空间设计达到最佳的声学效果。有些场所，比如开放式办公室，在私密性方面只要声学处理达到一般的背景噪音即可。另一些场所，比如教室，要将背景噪音控制在很低的水平才能获得理想的语言清晰度。

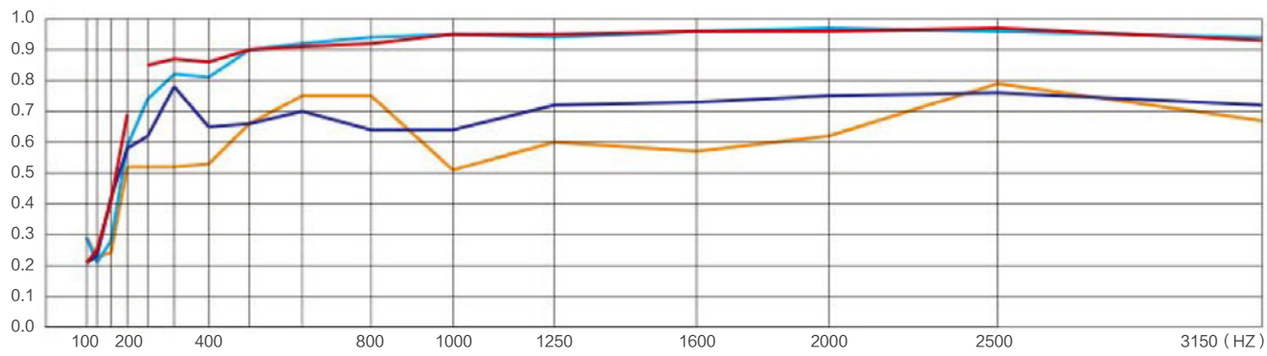
What we are concerned about are the speech intelliaibility. noise or sound guality, sound-absorbina materials, consideringmaterial sound-absorbing(surface),sound insulation(walls, floors, ceilings) and background noise can make the Spacedesign achieve the best acoustics effectSome places, 5uch as open plan offices, in terms of privacy, as long as theacoustic treatment to achieve the general backaround noise. Other places, such as classrooms, to the backaround noisecontrol System at very low levels in order to get a good speech intelligibility

冲孔金属天花产品能够有效解决噪音问题。当噪音发出于在指定的吸音范围内，噪音经过隔音物料后，产生摩擦，将声波能量转换成热能，从而减低声波值。在室外或室内的环境下，天花板的冲孔模式及吸音材料的不同将影响它的吸音能力及特性。不同的冲孔模式及吸音材料的成份，最终目的是为了迎合不同程度的吸音需求。

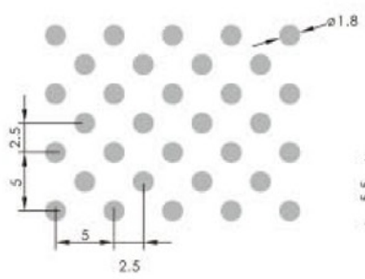
“吸音”是指吸收大部分的声音，减少声波的反射。如 A 图所示，使用十分薄的吸音材料就可以达到相当好的隔音效果冲孔天花根据冲孔的排列构成多种图案，构图新颖，具有出色的消音降噪效果。如 B 图所示，在贴无纺布的基础上再加贴 40mm 厚的玻璃纤维更有非常好的消音降噪效果。

Punching metal ceilings can effectively solve the noise problem.When the noise sources within a specified range of sound absorption, convertacoustic energy into heat to reduce the sound value after noise paed throuah the sound insulation material. in outdoor or indoor environmentdifferent punching form and sound absorption materials of ceiling wil affect its absorption ability and characteristics. Different punching fornand sound absorption materials, final purpose is to meet the demand of different levels of sound absorption.For sound absorption, the propagation of sounds is absorbed by converting sound energy into thermal energy, Materials with sound-absorbinproperties are called sound-absorbing materials. Be shown in Fig.A

In practice, perforated ceiling made of metal, wood, plastic or gypsum and provided with a porous sound-absorbing material (thickness is 40mm) on the back are used for absorption of air-borne noises. Be shown in Fig. B

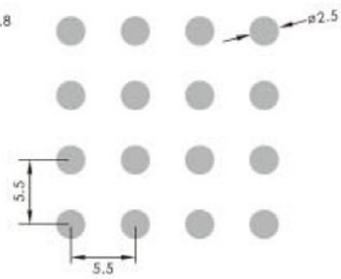






∅ 1.8 斜排孔

∅ 1.8 diagonal holes



∅ 2.5 直排孔

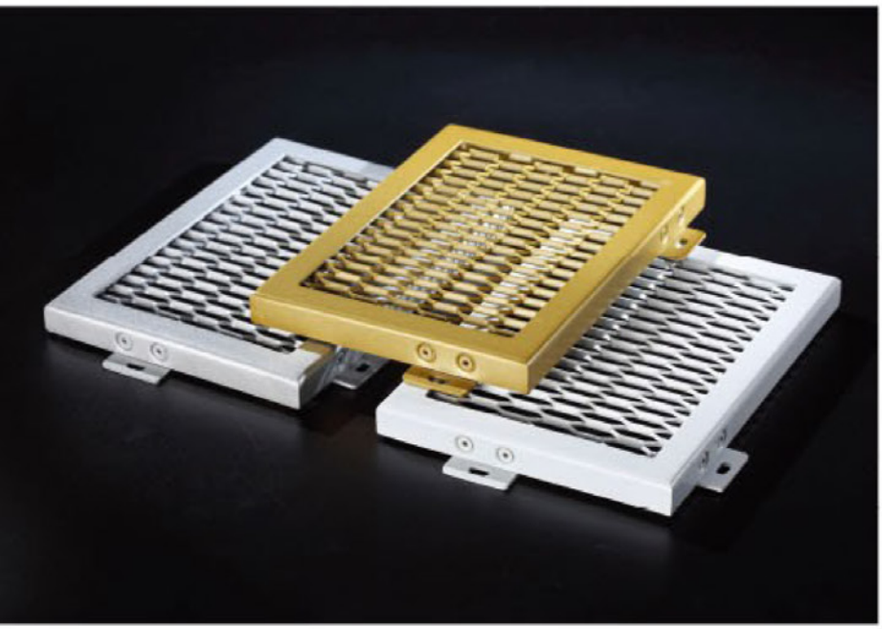
∅ 2.5 Inline holes

铝拉伸网
ALUMINUM STRETCH MESH

金属网格天花具有开放、透明的视野；是一种可用于多种建筑设计，视觉效果独特的吊顶系统。在样式、材质和颜色方面有广泛的选择，可以确保每个项目拥有独特的外观。金属网格是通过特殊的制造工艺在金属薄片表面同时进行切割和拉伸，制作出菱形网孔。通过网孔形状、网孔方向以及照明和颜色的变化，可以将吊顶表现得更加通透和富有动感。不同的网孔类型和材质，使吊顶设计更加富有个性、更具有时尚气息产品适用于设备繁多及人流较多的区域，如地铁、机场、车站、通道、现代大型购物中心、展览中心等大型开放式公共场所。

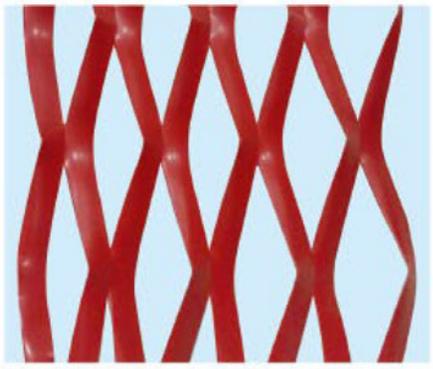
Metal grid ceiling with an open and transparent vision; is availablefor a variety of architectural design, visual effects, a unique ceilingsystems. In style, texture and color in a wide range of choice, youcan ensure that each project has a unique appearance. Metal gridthrough a special manufacturing process in the foil surfacesimultaneously cutting and stretching, making a diamond-shapedmesh. Through the mesh shape, mesh orientation and lighting andcolor changes can be performed more transparent ceiling anddynamic. Different mesh types and materials, so that the ceilingdesign is more personalized, more stylish atmosphere.Range of products for equipment and pedestrian flow areas, suchas subways, airports, stations, channel, modern shopping mallsexhibition centers and other large open public spaces.











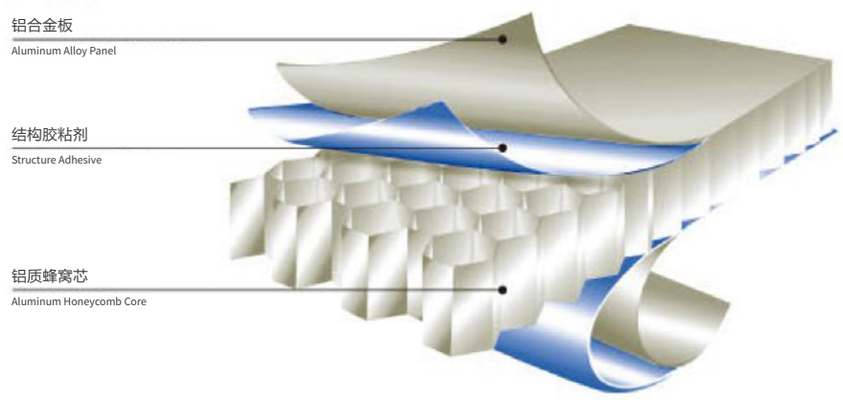


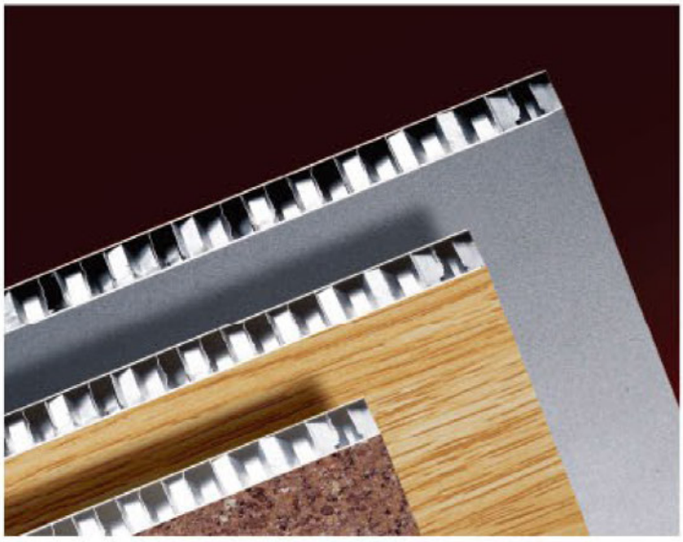


铝蜂窝板

ALUMINUM HONEYCOMB PANELS

铝蜂窝板主要应用于大厦的外墙装饰，该产品选用优质的进口原材料，加工尺寸精确。表面采用先进的预辊涂氟碳漆工艺，可保持三十年不变色。本公司采用双组份高分子环氧胶膜和双组份改性环氧树脂，通过全封闭无尘作业，用全自动蜂窝板复合生产设备通过加压高温复合而成，使铝蜂窝板粘接更牢固，更抗弯挠，板块更平直，质量更可靠。可根据建筑设计要求制作弧板、折板及梯形板等各式异形蜂窝板所有的圆弧型、L 型、U 型等非平面的异形板块都是通过模具一次性成型的，同一项目只采用同批次辊涂铝卷，无色差现象。属一种高质量轻质、高强度、外表豪华富丽的绿色环保装饰材料。







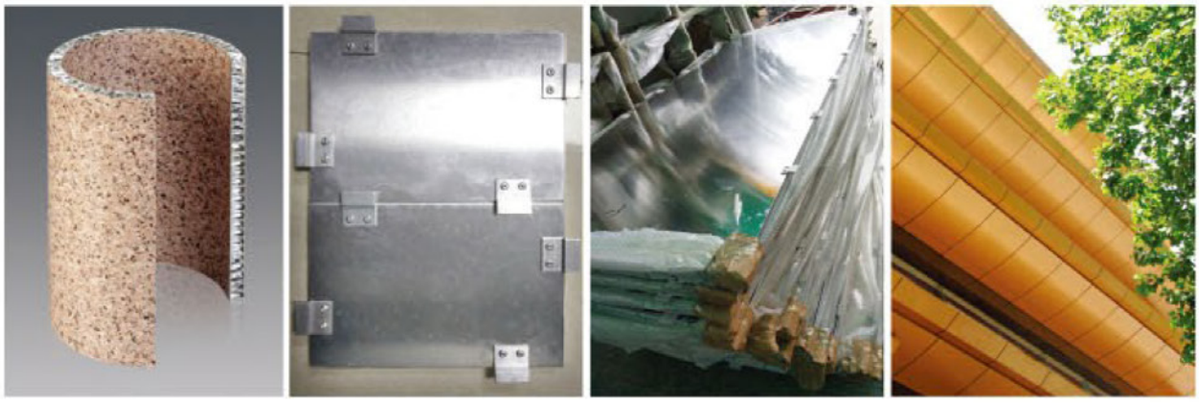
Aluminum honeycomb curtain wallpanels of brand are mainly used for the decoration of the external walls of high-rises. These productsare made of high-quality imported rawmaterials,and processed with high precision. its surface employs the advanced technique otfluorocarbon lacquer pre-coil coating, which can keep the color unchanged for 30 years. the company has adopted hi-component polymericepoxide membrane and bi-component modified epoxy resins and has used fully automatic compound manufacturing facilities of honeycombpanels to compound under pressurized high temperatures throuah completely-closed and dust-ree operation, which makes the honeycomboanels stickier. more bending resistant, straichter, and thus steadier and more reliable in guality. All kinds of alloyed honeycomb panelssuch as curl panels,folded panels and trapezoidal panels, can be fabricated according to the requirements of architectural design. alproduced by one -step forming with molds.Products of the same type adopted the same coil coating aluminum rollers, thus no chromaticaberration wil occur. it is a kind of organic and environmentally protective decorating material with high quality, light, high intensity andmagnificent appearance.



产品原材料
Raw materials

铝面板：主要选用优质的 3003H24 合金铝板或 5052AH14 高合金铝板为基材，厚度为 1.5mm 的氟碳辊涂板
铝底板：底板厚度为 0.5-1.0mm
铝蜂窝：芯材采用六角形 3003H18 型铝蜂窝芯，铝箔厚度 0.04~0.07mm、边长 5-6mm.
胶粘剂：采用双组份高分子环氧胶膜和双组份改性环氧树脂。

Aluminum panel: fluorocarbon coil coating panel,which mainly selects high quality 3003H24 aluminum alloy panel or 5052AH14 high manganese alloy aluminum panel as the base material,with a thickness of 0.7-1.5mm.Aluminum bottom panel: thickness 0.5-1.0mm.
Aluminum honeycomb: the core material adopts model 3003H18 hexagon aluminum foil being 0.04-0.07mm thick,with side length of 5-6mm.
Adhesives: adopts bi-component polymeric epoxide membrane and bi-component modified epoxy resins.

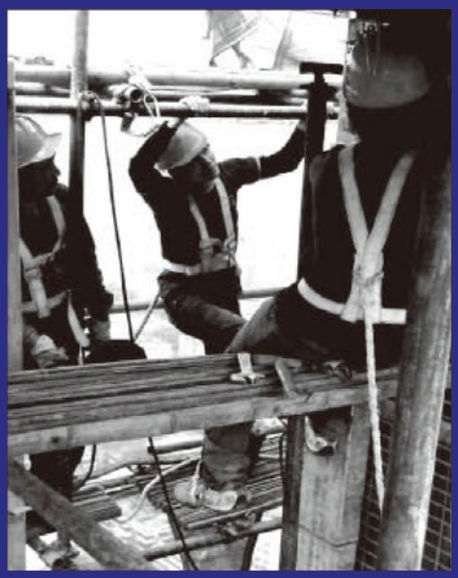


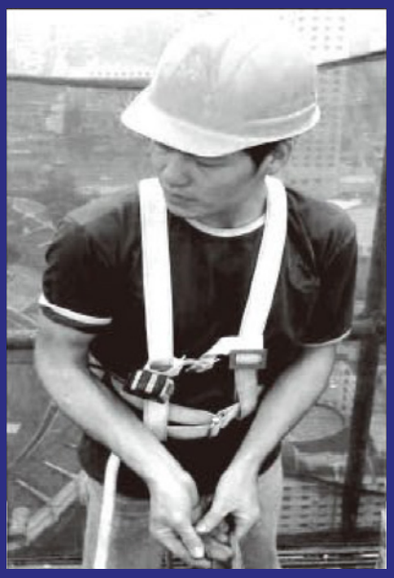
铝蜂窝板安装示意图

SCHEMATIC DIAGRAM OF ALUMINUM HONEYCOMB PANEL INSTALLATION

铝蜂窝板的底面板可根据不同的要求选用不同的材料，如铝板、不锈钢板、彩钢板、石材，铝蜂窝板是根据现场设计尺寸，在工厂加工板材四周弯折，然后复合成型，再冲挂耳与板块连成一整体，使成型后的铝蜂窝挂板更牢固。全工厂化生产，质量可靠，安装方便、快捷。

The base plate of the honeycomb platecan use different materials like aluminum plate, corrosion resistant plate, color plate and stone honeycomb aluminum plate is designed according to site conditions but processed at the factory.depending on the requirements. The wallThe edges of the plate are bucked and molded compositely. The hangers connecting with the plate to form a whole make the plate moresecure. The productions are all made at the factory to ensure reliable quality, convenient and speed installation.



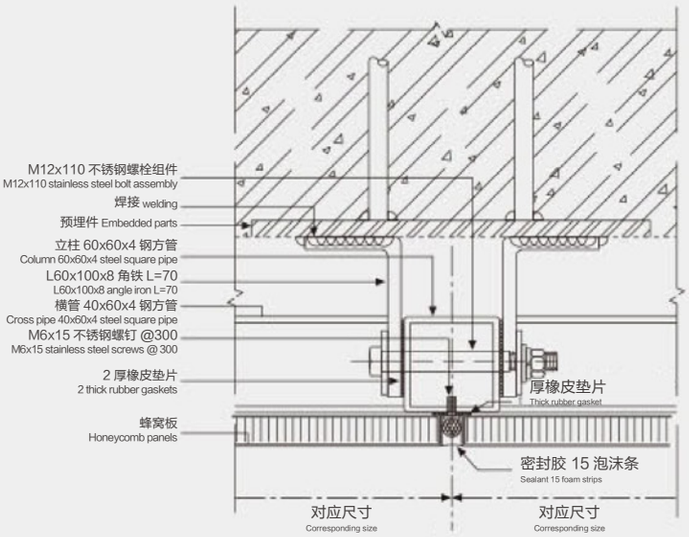


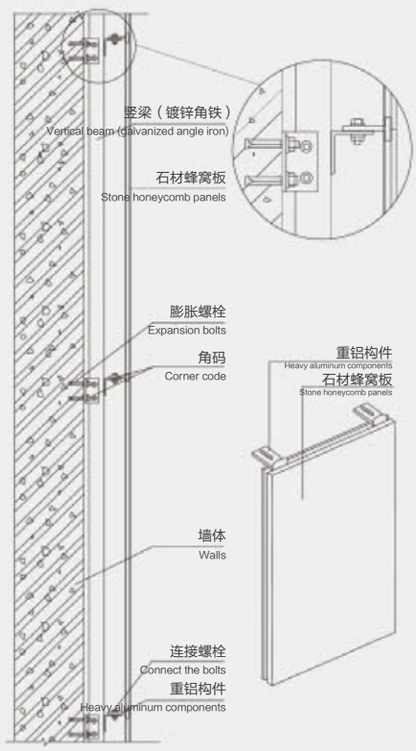


凝聚建筑 · 铸就气魄

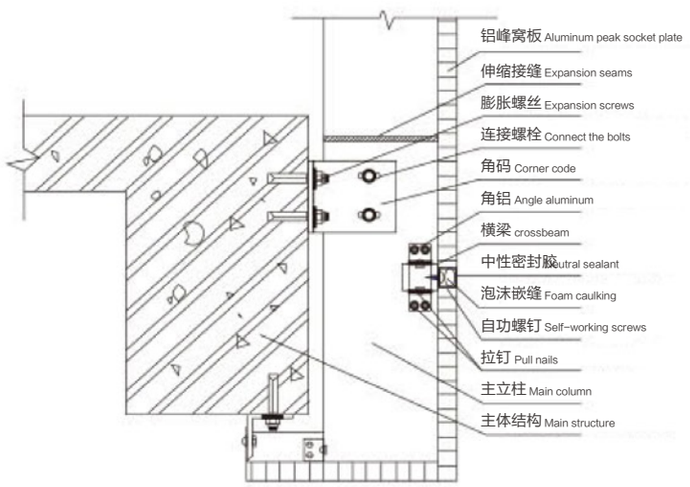
COHESIVE ARCHITECTURE
BUILD YOUR SPIRIT

留缝结构图
Joint structure diagram





幕墙铝蜂窝板安装示意图
Curtain wall installation diagram of aluminum honeycomb panels

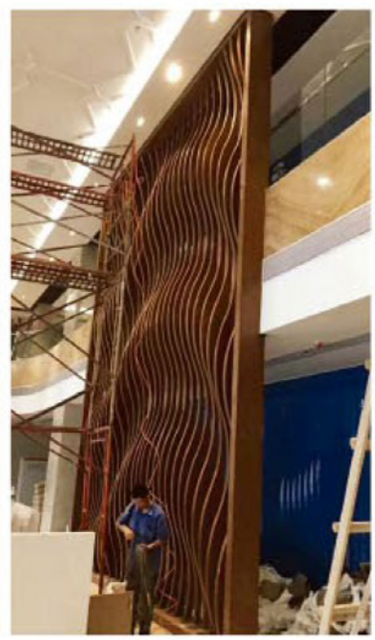


造型板
MODELING BOARD

造型铝板结合了多种成型工艺，是铝单板中难度最大的一种异型板，我们制造的造型板精确度高，表面平滑，合缝精准而且可来图来样订制等特点。
造型铝板以独特的造型给建策带来耳目一新的视觉享受。从瓷砖、铝单板、造型铝板，一路的传承与演变无不体现了正一人对产品的创新与追求；造型铝板的设计开发为建筑设计师提供了宝贵的设计创意和视觉盛宴，它的诞生将成为装饰材料中的宠儿，是对传统工艺的一种挑战与突破！它更是高档商住建筑常用的新型材料！

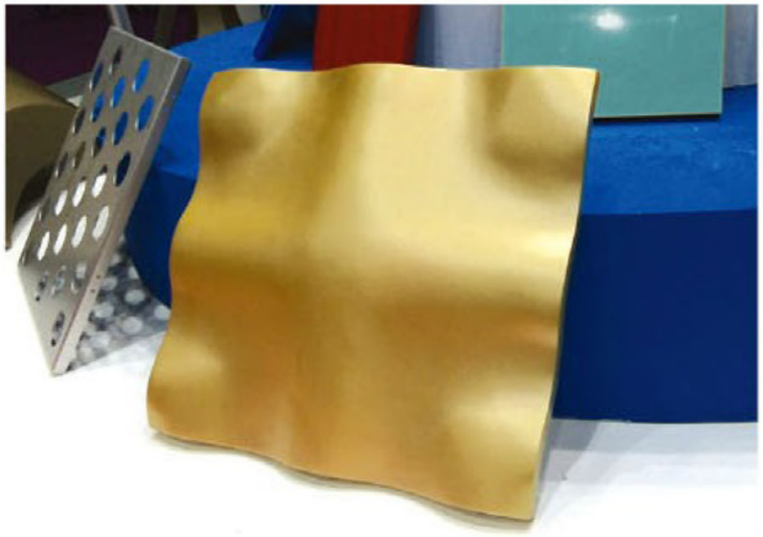
Hyperbolic boards product which is made by universal CNC machine with proprietary double-curved software and finish production duringshort time. It is high accuracy, smooth surface and accurate seam.It can also customized according to your sample.Hyperbolic boards bring new visual enjoyment for buildings by its unique shape. From the changes of tiles, aluminum single plate, aluminumhyperbolic boards, products, they incarnate the spirit of innovation with a persistent quest of haohong! company.The design and developmentof hyperbolic boards are provide valued ideas for construction designer. Hyperbolic boards is a favourite of decoration materials. It is challenge and breakthrough for tranditional technology. It is also new concepts of high-grade residential and commercial buildings.









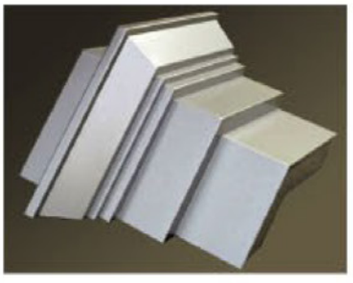



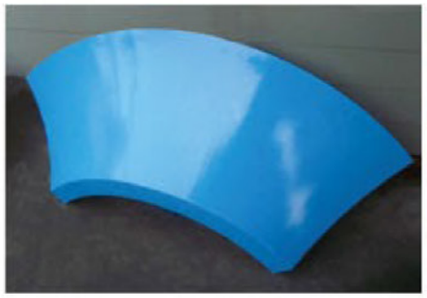
HAO HONG

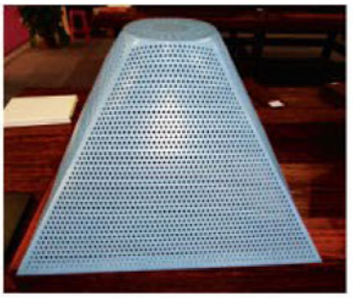
BUILDING MATERIALS

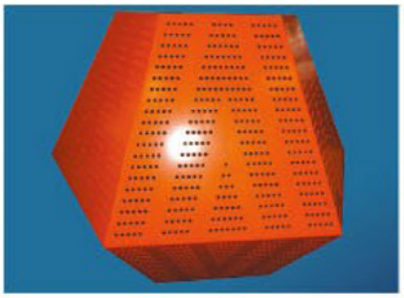












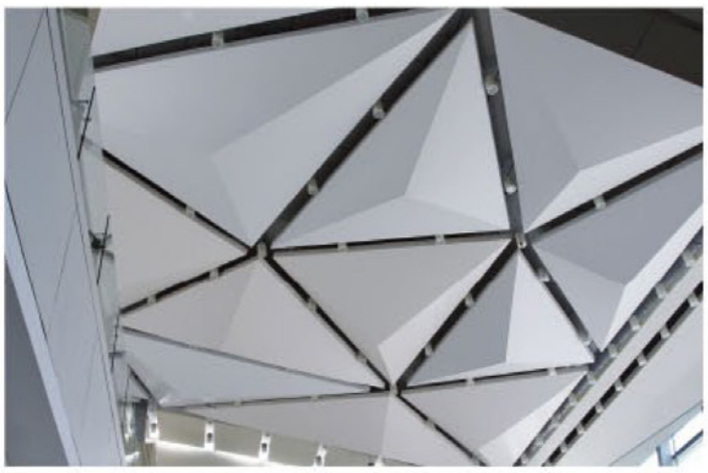


异型吊顶

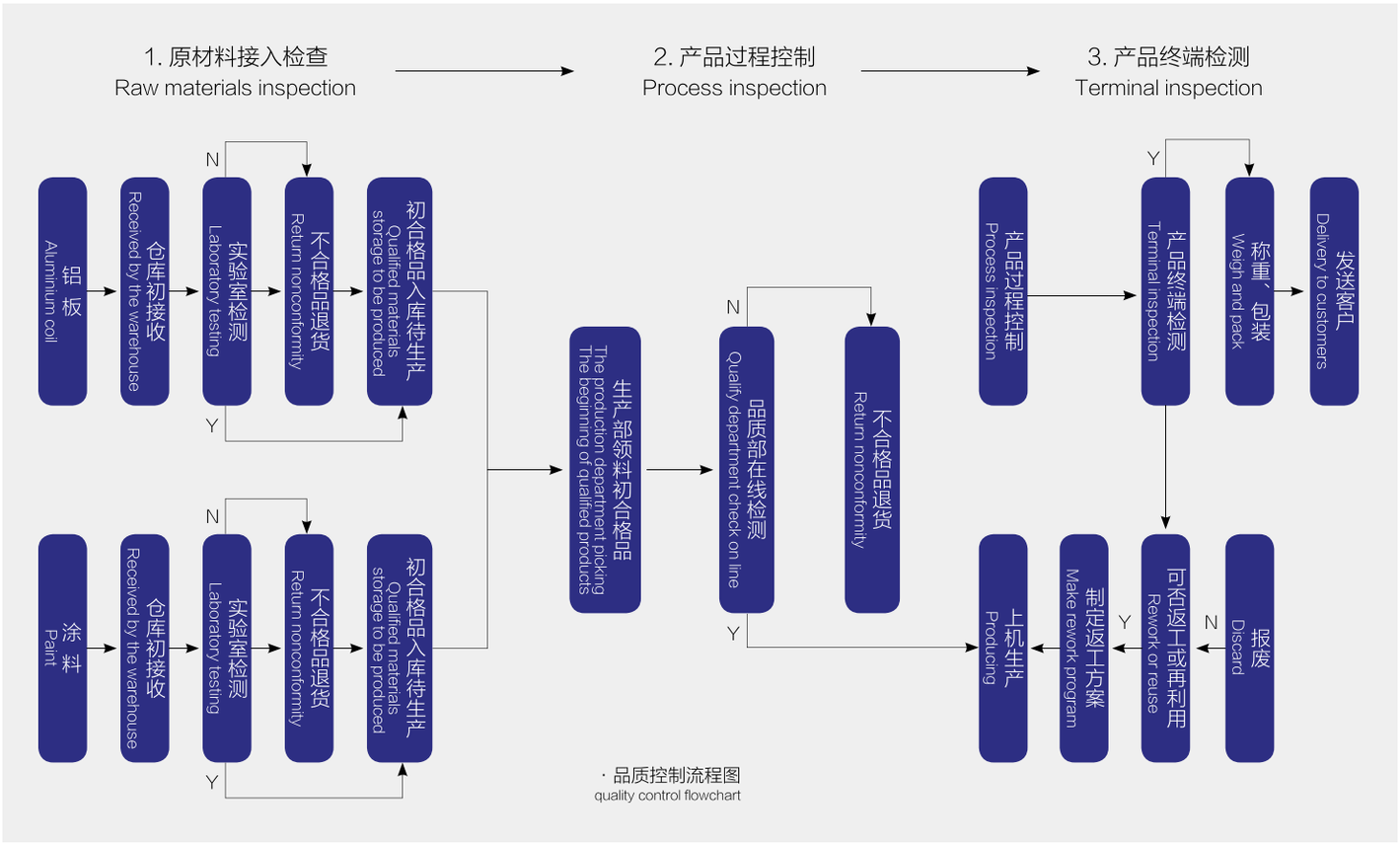
SPECIAL-SHAPED CEILING

异型天花板产品是指不采用标准成型模具、产品不具有的标准外形及尺寸。异型天花板通常采用剪板机、折弯机。弯弧机等设备把面板加工成弧形板、折角板、梯形板等各种形状的产品。非标准板吊顶系统突破常规标准吊顶造型的概念，设计独特创新，造型富有想象力，可满足特殊用途的建筑部位设计需要。无论应用于何处，产品简洁大气的块面，变幻丰富的造型，绚丽缤纷的色彩和烁烁生辉的质感均带给每一位设计师和业主实现理想的自豪感和独具一格的建筑特色。异型板吊顶系统是根据客户需求而特别定制的异型产品，应用于对某些设计和功能方面有特殊需求的建筑领域。

Abnormal shape ceiling products is not made by a standard mold, the product does not have a standard form afterforming geometry, usually adopt shears; bending machines, bending machines and other equipment to panel arcprocessed into curved plates, knuckle plates, trapezoidal plates and other forms of shaped products. Non-standardceiling panel ceiling system exceeded the standard form of the conventional concept, unique and innovative designimaginative style, can meet the special purpose of building site design needs. Whether used the product simple andthe atmosphere block surface, changing the shape of a rich, briiant colors and texture are brought brilliance of everydesianer and owner to achieve the desired sense of pride and a uniaue style of architecture characteristics. Shapedboard ceiling system is based on customer needs and special custom shaped products, used in the design and functionalityof some of thespecial needs of the construction sector.



品质控制体系
QUALITY CONTROL SYSTEM



· 品质控制流程图
quality control flowchart

部分工程案例

PART OF THE ENGINEERING CASE

工程名称	工程名称	工程名称
上海市	浙江省	四川省
上海陆家便民中心	浙江龙泉县影剧院	成都双流机场工程
上海交通大学	浙江省人大办公楼	成都北新机电城工程
上海国际会展中心	杭州凯宾基大酒店	成都华侨城
上海虹桥高铁站	浙江温州火车南站	成都南部中心大楼
上海浦东机场	常州火车站室内铝单板	成都火车东站
北京市	浙江金华婺剧院	成都会展中心
北京西客站	浙江海康威视	成都地铁
北京首都机场	浙江宏天同业工程	广汉市政大楼
北京广播大厦	湖南省	河南省
国家大剧院	郴州文化艺术中心	郑州高铁火车站
中石油大厦	长沙高铁火车站	郑州电视塔工程
王府井大楼	湖南岳阳天伦城大润发商场	河南焦作会展中心
北京正骨医院	湖南岳阳香堤半岛别墅	河南省焦作阳光大厦
北京机场 T3 航站楼	湖南衡阳火车站	河南巩义火车站
重庆市	湖南娄底冷水江体育馆	内蒙古省
重庆江北机场	湖南商品交易中心办公楼	内蒙古鑫洲集团办公大楼
重庆火车站	湘潭市红旗商贸城	内蒙古乌审旗车坡工程
重庆信息大楼	天津市	内蒙古海拉尔火车站
重庆中美大数据学院	天津滨海国际广场	西藏
湖北省	天津峰汇广场	西藏市政府大楼
湖北省潜江市龙展馆	天津华侨城	西藏审计局
湖北省潜江市中心医院	辽宁省	新疆
湖北武汉天河机场	辽宁省大连市金州区温泉中心	新疆克拉玛依民营科技
武汉市福星惠誉群星城	辽宁省沈阳市体育馆	新疆国际会展酒店
武汉市福星惠誉澜桥公馆	大连瓦房店 / 鲅鱼圈火车站	新疆独生子文化中心