

绿色 安全 健康
Green Safety Health

海加®
HIGHKA

海加 ALC 墙板

HIGHKA ALC Wallboard
蒸压加气混凝土板

海加绿色科技集团旗下

广东海加绿色新材料有限公司

GuangDong Highka Green New Material Co., Ltd

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海加微信公众号



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企业简介

Company Profile

广东海加绿色新材料有限公司

广东海加绿色新材料有限公司（简称：**海加/HIGHKA**）于2014年正式成立，总部位于广东省广州市天河区广东省农科院环艺所，生产基地分布于广东、河北、广西，并在深圳、广州、上海、北京、南宁、海口、厦门设有营销中心。

海加是一家集技术、研发、设计、制造、营销、服务于一体的高新技术企业。营销及服务面向全国、澳洲、非洲、东南亚等海外市场。

海加倡导“绿色享有未来”的理念，带着国外先进的房屋建造理念，进入建筑及房屋市场，并以现代科技、健康、生态、智能、节能建筑集成系统相结合，推出绿色、节能及集成化、模块化、工业化、可循环化的装配式产品及应用系统解决方案。致力于绿色装配式集成房屋、绿色装配式建筑产品及系统应用解决方案的生产制造企业，并专业提供绿色建筑、声学、BIM、装配式建筑技术。

超10多年的行业经验，专注专业于国际品牌酒店的**隔声功能装饰性墙体系统解决方案推广与应用**。专业研发、匠心制造、专业服务，公司以**装配式房屋、墙板系统、天花系统、地板系统、轻钢制造**为五大核心主营产品及应用系统。

海加公司

广州市重点公共建设项目入库品牌
绿色集成建筑房屋制造商
绿色集成建筑系统制造商
国家高新技术企业
专精特新企业
科技型企业
创新性企业

GUANGDONG HIGHKA GREEN NEW MATERIAL CO., LTD

Guangdong HIGHKA Green New Material Co., Ltd. (HIGHKA for short) was officially established in 2014. It is headquartered in the guangdong provincial academy of agricultural sciences environmental art institute, Tianhe District, Guangzhou City, Guangdong Province. Its production bases are distributed in Guangdong, Hebei and Guangxi, And in Shenzhen, Guangzhou, Shanghai, Beijing, Nanning, Haikou, Xiamen with marketing centers.

HIGHKA is a high-tech enterprise integrating technology, R & D, design, manufacturing, marketing and service. Marketing and services are oriented to overseas markets such as China, Australia, Africa and Southeast Asia.

HIGHKA advocates the concept of "Green enjoy in the future", enters the construction and housing market with foreign advanced housing construction concept, and combines modern science and technology, health, ecology, intelligence and energy-saving building integrated system to launch green, energy-saving and integrated, modular, industrialized and recyclable assembled products and application system solutions. It is committed to manufacturing green prefabricated integrated houses, green prefabricated building products and system application solutions, and specializes in providing green building, acoustics, Bim and prefabricated building technology.

With more than 10 years of industry experience, we focus on the promotion and application of sound insulation and decorative wall system solutions for international brand hotels. Professional R & D, ingenious manufacturing and professional services. The company's five core products and application systems are prefabricated houses, wallboard systems, ceiling systems, floor systems and light steel manufacturing.

HIGHKA company

Warehousing brands of key public construction projects in Guangzhou
Green integrated building house manufacturer
Green integrated building system manufacturer
National high-tech enterprise
Specialized and sophisticated enterprises
Scientific and technological enterprise
Innovative enterprises

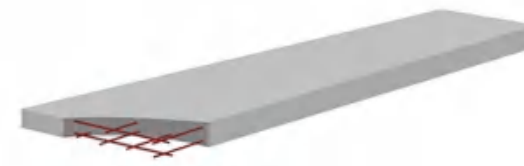
海加ALC墙板
HIGHKA ALC Wallboard



板材
Panel



砌块
Block



楼板 / 屋面板
Floor Panel / Roof Panel

产品优势

Product Advantage



绿色环保

Green Environmental Protection

生产工艺全过程不使用有害物质。产品经检测，AAC (ALC) 材料内照射指数为0.2 (标准要求 ≤ 1.0)，外照射指数0.1 (标准要求 ≤ 1.0)，具有无放射性，不含有害物质。

No harmful substances are used throughout the production process. After testing, AAC (ALC) material internal exposure index is 0.2 (standard requirement ≤ 1.0), external exposure index 0.1 (standard requirement ≤ 1.0), with no radioactivity and no harmful substances.

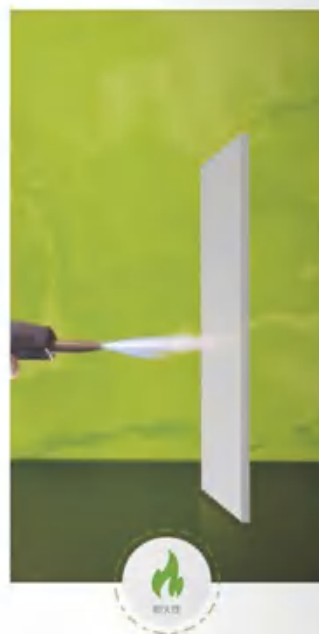


抗震

The Seismic

AAC (ALC) 板材质量轻，同时其科学合理的安装节点设计和施工安装方法，使板材具有良好的抗震性，在抗震试验中心分别进行了钢结构住宅体系加气混凝土外墙板抗震性能试验各低周反复试验，都证明了AAC (ALC) 板具有优越的抗震性能。

AAC (ALC) plate quality is light, is the installation node design and construction of the scientific and reasonable method, make the plate has good shock resistance, respectively in the center of the shock test for the steel structure housing system of aerated concrete cladding seismic performance test the low cyclic test, prove AAC (ALC) board has excellent seismic performance.

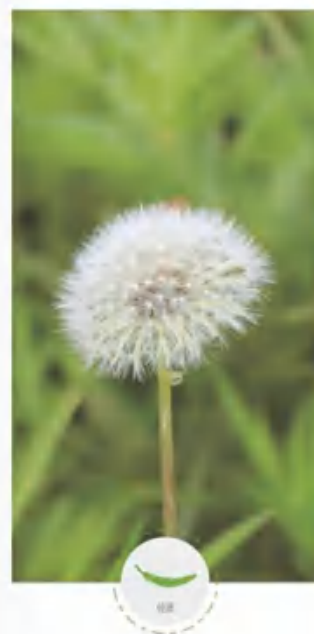


耐火极限

Refractory Limit

无机不燃材料，体积热稳定性好，热迁移慢，具有良好的耐火性，且不释放有毒有害气体，试验证明，100mm厚度的海加ALC板达到4小时以上耐火极限，是理想的建筑防火材料。

Inorganic non-combustible materials, with good volume thermal stability, slow thermal migration, good fire resistance and no release of toxic and harmful gases, tests have proved that the HIGHKA ALC plate with a thickness of 100mm has reached the fire-resistance limit of more than 4 hours and is an ideal fireproof material for buildings.



轻质

Light

可浮在水面上的混凝土，使用加气混凝土制品可以减轻建筑物的自重，减少结构和地基建造费用。

Floating concrete, the use of aerated concrete products can reduce the weight of the building, reduce the cost of structure and foundation construction.



节能

Energy Saving

导热系数 $< 0.13w/(m \cdot k)$ ，其保温隔热性能优越于普通混凝土，是保温隔热性能优越的建筑材料。

Thermal conductivity $< 0.13w/(m \cdot k)$, its thermal insulation performance is superior to that of ordinary concrete, is a building material with excellent thermal insulation performance.



承载

Bearing

作为承重或非承重材料，具有轻质高强的特点，板材内部放置有满足设计要求的钢筋网片，可承受相应的风荷载、积雪荷载以及活荷载。

As load-bearing or non-load-bearing material, it has the characteristics of light weight and high strength. The steel mesh is placed inside the plate to meet the design requirements, and it can bear the corresponding wind load, snow load and live load.



Solution ALC Wallboard

海加ALC墙板全新解决方案
Brand New Solution of HIGHKA ALC Wallboard

海加ALC墙板是由硅砂、粉煤灰、水泥、石灰等为主要原料，加入经过防锈处理的钢筋增强，经高温、高压、磨细、配料、浇注、切割、蒸压养护和铁磨等工序而制成的一种轻质多孔新型的绿色环保建筑材料。

海加ALC墙板经高温高压、蒸汽养护、反应生产具有多孔状结晶的板材，其密度较一般水泥质材料小，具有卓越的保温隔热、隔音、耐火、耐久、抗冻、抗渗、抗震等性能，软化系数高、环保节能，施工便捷造价低，且表面质量好、承载性好、吊挂物体方便不开裂，是一种性能优越的新型节能建筑材料。

海加ALC墙板被广泛用于混凝土结构、钢结构住宅、办公楼、厂房的内、外墙体、楼板、屋面板，防火墙，卸爆墙，钢结构梁、柱防火维护，隔音墙，旧建筑物加层改造等工业与民用建筑。

海加ALC墙板根据用途可分为内墙板、外墙板、屋面板、楼板

HIGHKA ALC wall board is a new kind of light porous green building material made of silicon sand, fly ash, cement, lime and other main raw materials, reinforced with rust-proof reinforcement, and made by high temperature, high pressure, grinding, battering, pouring, cutting, autoclastic curing and milling.

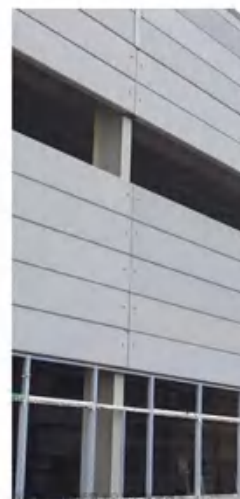
HIGHKA ALC wall panel production by high temperature and high pressure, steam curing, reaction with cellular crystal plate, its density is less than cement-based material, has excellent thermal insulation, sound insulation, fireproof, durable, frost resistance, impermeability, seismic performance, such as softening coefficient is high, the environmental protection and energy saving, convenient construction of low cost, and good surface quality and carrying, convenient hanging objects not cracking, is a kind of superior performance of new energy-saving building materials.

HIGHKA ALC wallboard is widely used in industrial and civil buildings such as internal and external walls, floor boards, roof boards, firewalls, demolition walls, steel beams and columns fire maintenance, sound insulation walls, adding floors to old buildings and so on in concrete structures, steel buildings, office buildings and workshops.

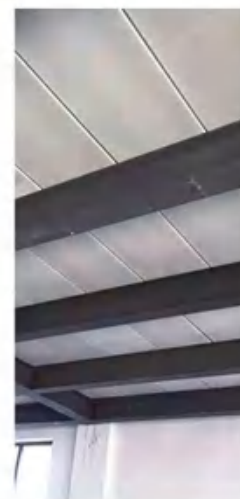
HIGHKA ALC wallboard can be divided into internal wall panel, external wall panel, roof panel and floor panel according to the purpose.



内墙板
Internal Wall Panel



外墙板
External Wall Panel



楼板
Floor Panel



屋面板
Roof Panel

内墙板系统解决方案 Interior Wall Panel System Solution

HIGHKA

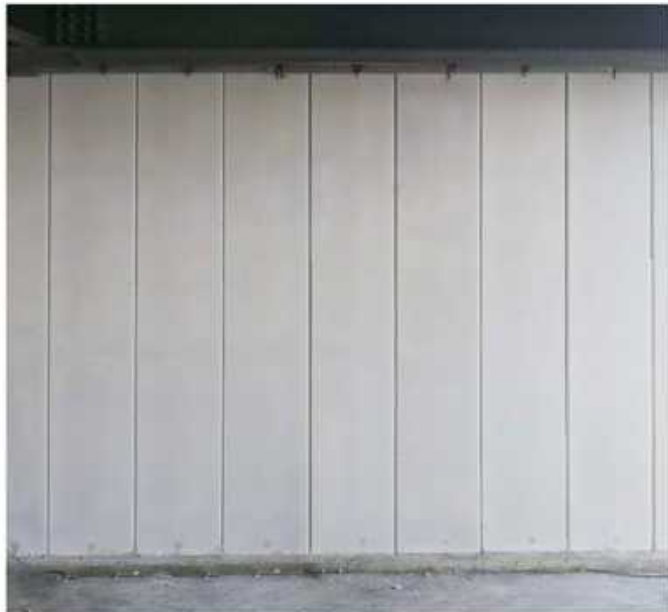
内墙板 Internal Wall Panel

规格 (mm) Specifications	L×B×H	≤3000×600 ×75	≤4000×600 ×100	≤5000×600 ×125	≤6000×600 ×150	≤6000×600 ×200	≤6000×600 ×250
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基本性能指标 Basic Performance Index

等级 (强度级别 / 干密度级别) Grade (Strength Level/Dry Density Level)		A 2.5 / B 04	A 3.5 / B 05	A 5.0 / B 06
干密度 (Kg/m ³) Dry Density		≤450	≤550	≤650
抗压强度 (MPa) Compressive Strength	平均值 Average Value	≥2.5	≥3.5	≥5.0
	单组最小值 A Single Minimum	≥2.1	≥3.0	≥4.2
干燥收缩值 (mm/m) Drying Shrinkage Value	标准法 Standard Method	≤0.50		
抗冻性 Frost Resistance	质量损失 (%) Quality Loss	≤5.0		
	冻后强度损失 (%) Strength loss after freezing	≤20		
导热系数 (干态) [w/(m.k)] Thermal Conductivity (Dry State)		≤0.12	≤0.14	≤0.16
构造要求 Structural Requirements	花纹 Decorative Pattern			
	槽口 Notch	✓		
	平口 Flat	✓		





内墙板施工节点 (精选)

Interior Wall Panel Construction Node(Select)

HIGHKA



① 管卡法 (钢板可在任一方向固定)
Pipe Clamping (Steel Plates Can Be Fixed In Either Direction)



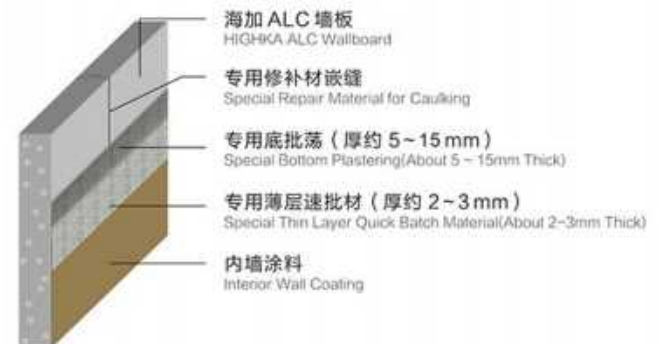
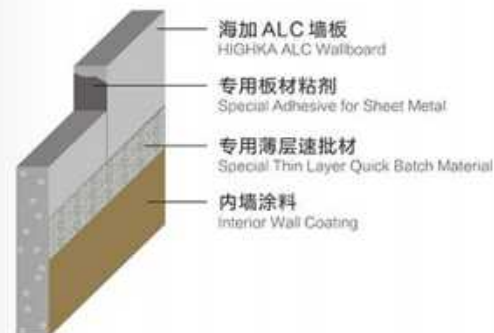
② 板长 ≤ 4米
Board Length ≤ 4 m



③ 板长 > 4米 | 管卡法 (钢板可在任一方向固定)
Board Length > 4 m | Pipe Clamping (Steel Plates Can Be Fixed in Either Direction)

内墙板饰面处理

Interior Wall Panel Finish



外墙板系统解决方案

Exterior Wall Panel System Solution

HIGHKA

外墙板

External Wall Panel

规格 (mm) Specifications	L×B×H	≤3000×600 ×100	≤3750×600 ×125	≤4500×600 ×150	≤5250×600 ×175	≤6000×600 ×200
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基本性能指标

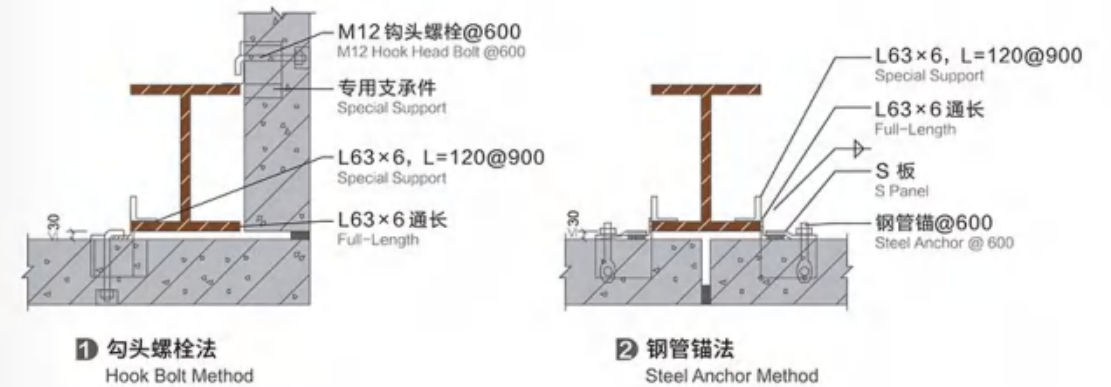
Basic Performance Index

等级 (强度级别 / 干密度级别) Grade (Strength Level/Dry Density Level)		A 2.5 / B 04	A 3.5 / B 05	A 5.0 / B 06
干密度 (Kg/m ³) Dry Density		≤450	≤550	≤650
抗压强度 (MPa) Compressive Strength	平均值 Average Value	≥2.5	≥3.5	≥5.0
	单组最小值 A single minimum	≥2.1	≥3.0	≥4.2
干燥收缩值 (mm/m) Drying Shrinkage Value	标准法 Standard Method	≤0.50		
抗冻性 Frost Resistance	质量损失 (%) Quality Loss	≤5.0		
	冻后强度损失 (%) Strength loss after freezing	≤20		
导热系数 (干态) [w/(m.k)] Thermal Conductivity (Dry State)		≤0.12	≤0.14	≤0.16
构造要求 Structural Requirements	花纹 Decorative Pattern	√		
	槽口 Notch	√		
	平口 Flat	√		



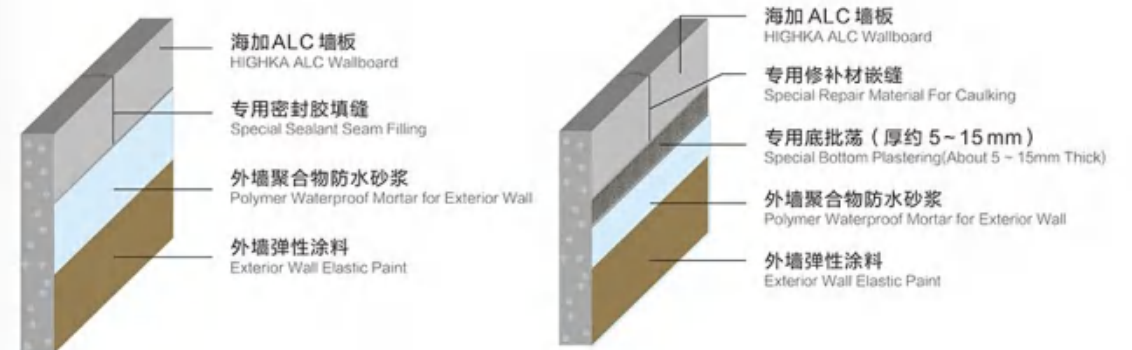
外墙板施工节点 (精选)

External Wall Panel Construction Node(Select)



外墙板饰面处理

Interior Wallboard Finish



楼板 / 屋面板系统解决方案 Floor Panel / Roof Panel System Solution

楼板 / 屋面板 Floor Panel / Roof Panel

板厚 (mm) Plate Thickness	100	125	150	175	200
板长 (mm) Plate Length	≤2500	≤3125	≤3750	≤4375	5000

基本性能指标

Basic Performance Index

等级 (强度级别 / 干密度级别) Grade (Strength Level/Dry Density Level)	A 3.5 / B 05	A 5.0 / B 06	
干密度 (Kg/m ³) Dry Density	≤550	≤650	
抗压强度 (MPa) Compressive Strength	平均值 Average Value	≥3.5	≥5.0
	单组最小值 A single minimum	≥3.0	≥4.2
干燥收缩值 (mm/m) Drying Shrinkage Value	标准法 Standard Method	≤0.50	
抗冻性 Frost Resistance	质量损失 (%) Quality Loss	≤5.0	
	冻后强度 (Mpa) After The Frozen Strength	≥2.8	≥4.0
导热系数 (干态) [w/(m.k)] Thermal Conductivity (Dry State)	≤0.14	≤0.16	
楼面荷载标准值 (KN/m ²) Floor Load Standard Value	楼面静荷载 Floor dead load	1.5	
	楼面活荷载 Floor live load	2.0	



楼板 / 屋面板优点

Floor Panel / Roof Panel Advantages

容重小, 科技含量高, 可有效的减轻建筑特的自重, 与其它材料和施工方法相比, 单位造价最低;

强度高, 可根据设计要求配置相应的钢筋, 满足不同客户的需求;

防火性能好, 耐火时间长, 属A级不燃的新型楼板材料;

保温效果好, 导热系数低, 有效降低了能源的消耗;

施工简单快捷, 采用干式施工法, 无施工垃圾、无污染, 可有效地缩短建设工期;

材料稳定性高, 不会开裂, 与建筑物同寿命。

Small bulk density, high technology content, can effectively reduce the building special weight, compared with other materials and construction methods, unit cost is the lowest;

High strength, can be configured according to the design requirements of the corresponding reinforcement, to meet the needs of different customers;

It is A class A non-combustible new floor material with good fire resistance and long fire resistance.

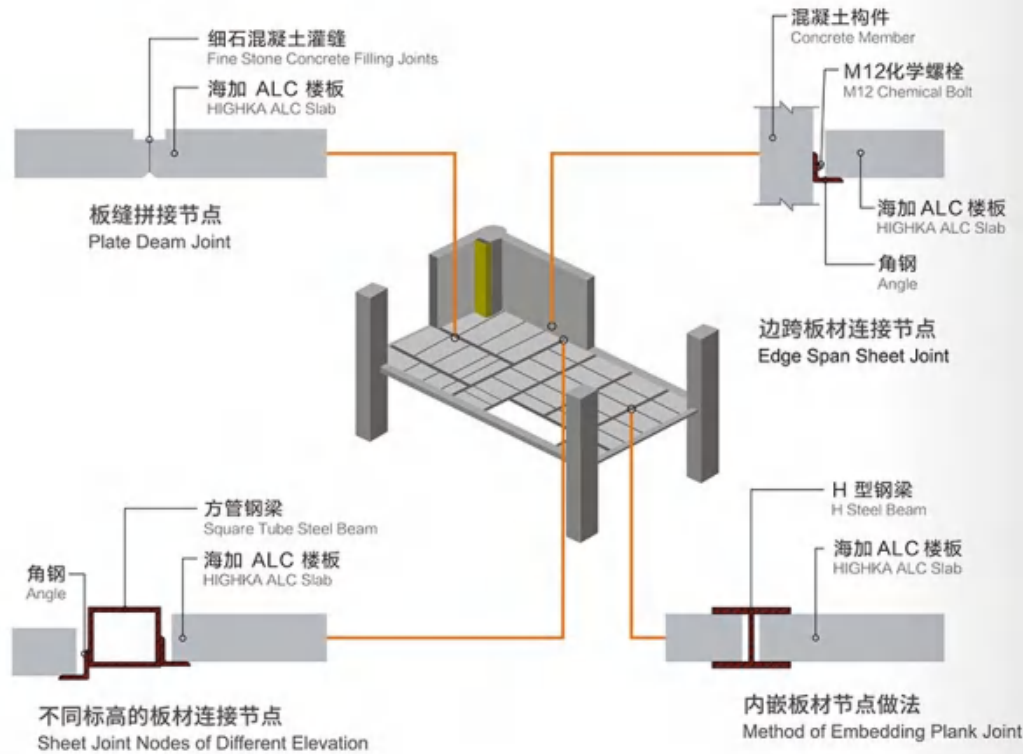
Good thermal insulation effect, low thermal conductivity, effectively reduce energy consumption;

The construction is simple and fast, adopting dry construction method, no construction waste, no pollution, can effectively shorten the construction period;

High material stability, not cracking, with the same life of the building.



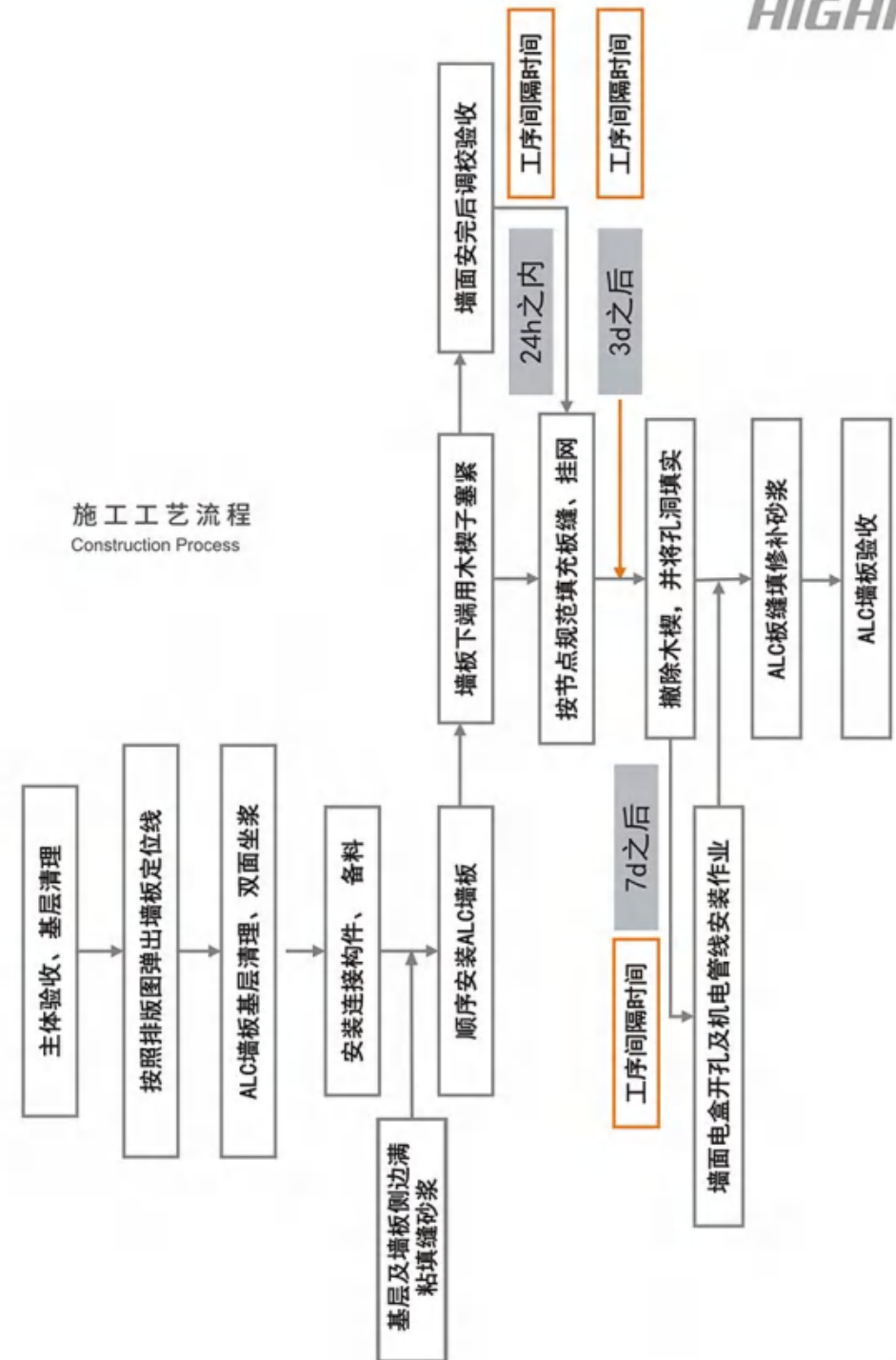
楼板 / 屋面板施工节点 (精选)
Floor Panel / Roof Panel Construction Node (Selected)



楼板 / 屋面板施工安装步骤
Floor Panel / Roof Panel Construction and Installation Steps



施工工艺流程
Construction Process



海加合作伙伴

HIGHKA Cooperative Partners



发展商 Developer

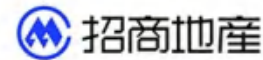
长隆集团
保利集团
招商地产
万达集团
绿地集团
华润地产
岭南集团
中集集团
温氏集团
海印集团
香江地产
华润集团
世贸集团
融创中国
华侨城集团
碧桂园集团
白云国际机场股份
万豪国际酒店集团公司
周大福新世界地产
仁恒置地集团
广东中集建筑集团
中国平安
宜家家居
信利国际
...

总包方 General contractor

中国建筑第一工程局有限公司
中国建筑第二工程局有限公司
中国建筑第三工程局有限公司
中国建筑第四工程局有限公司
中国建筑第五工程局有限公司
中国建筑第六工程局有限公司
中国建筑第七工程局有限公司
中国建筑第八工程局有限公司
中建科技集团有限公司
中建科工集团有限公司
中建海龙科技有限公司
广东省建筑工程集团有限公司
上海宝冶集团有限公司
北京建工集团有限责任公司
上海建工集团股份有限公司
上海绿地建筑工程有限公司
中国五冶集团有限公司
广州第四建设工程有限公司
四川华西集团有限公司
广州建筑股份有限公司
...

装饰单位 Decoration unit

苏州金螳螂建筑装饰工程有限公司
中建深圳装饰有限公司
深圳文业装饰设计工程有限公司
深圳广田装饰有限公司
深圳市宝鹰建设集团股份有限公司
深圳市奇信建设集团股份有限公司
深圳海外装饰工程有限公司
深圳华辉装饰工程有限公司
深圳卓艺装饰设计工程有限公司
深圳市中航装饰设计工程有限公司
广东省美术设计装饰工程有限公司
浙江银建装饰工程有限公司
浙江亚厦装饰股份有限公司
北京城建深港建筑装饰工程有限公司
上海建筑装饰工程集团有限公司
中建八局装饰工程有限公司
...



Application Case

ALC Wallboard

部分ALC墙板应用案例

Some Application Cases of ALC Wallboard

中建一局华南区域公司2022年（广东省）ALC轻质隔墙集中采购
 中建二局二公司2022年（华南区域）ALC墙板联合采购
 中建科工北方大区2022-2023年度ALC墙板供应集中采购
 深圳市特区建工集团绿色建材有限公司ALC轻质隔墙板产品年度单价采购
 广州花都金地商置广州北站TOD
 深圳长圳公共住房及其附属工程
 深圳安居鸿栖台人才安居房
 深圳光明区委党校项目
 深圳深业山水东城花园
 深圳龙华樟坑径人才安居项目
 广州粤港澳大湾区生物安全创新港
 广州白云区亭岗站AB2404118地块、AB2404122白云区亭岗站地块人才房及幼儿园
 广州路劲新塘大道南地块
 佛山顺德农商银行大厦
 深圳三环科技大厦项目
 广州白云机场综保区（中区）华南生物医药制品分拨中心工程
 广州空港经济区镜湖大道东侧CA0109016地块
 广州丰州置业有限公司18003210A20061号地块商品房开发
 广州黄埔凤凰湖
 广东交通设计大厦
 广州金融城起步区石东集体物业拆迁安置房
 广州白云泵业集团九龙工业园
 广州京东亚洲一号
 深圳大沙河文体中心
 深圳市清华大学研究院
 深圳珠光小学改扩建
 ...

工程项目案例：保利南沙天汇项目

Project Case: Poly Nansha Tianhui Project

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



工程项目案例：保利·钟落潭(健康城项目)

Project Case: Poly · Zhongluotan (Health City Project)

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



工程项目案例：保利翔龙天汇(黄陂项目)

Project Case: Poly Xianglong Tianhui (Huangpi Project)

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



工程项目案例：深圳清华大学研究院

Project Case: Research Institute of Tsinghua University in Shenzhen

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



工程项目案例：珠海城市新中心保障房工程

Project Case: Affordable Housing Project of Zhuhai New Urban Center

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



工程项目案例：深圳市长圳公共住房及其附属工程

Project Case: Shenzhen Changzhen Public Housing and Its Ancillary Projects

使用产品：海加ALC墙板

Product Used: Highka ALC Wallboard



Highka

Service and System

海加的系统产品与服务支持
Highka's System Products and Service Support

海加提供的服务

Services Provided by Highka:

整体系统解决方案

Whole System Solutions

紧贴客户需求，提供高性价比的整体系统服务方案。
Provide high cost-effective whole system service solutions close to customer needs.

深化系统设计

Deepening System Design

根据应用方案进行深化设计，使产品应用在整体化、标准化、可循环化得到实施，绿色低碳设计。
Deepen design depending on applications to achieve integration, standardization and cycling of product application. The design is green and low-carbon.

工厂工业化定制

Factories' Industrialization Customization

现代工业化生产、标准化产品、品质保证、也可根据项目要求定制特殊尺寸。
Modern industrial production, standardized products, quality assurance, Special sizes can be customized according to project requirements.

模块化安装施工

Modularization of Installation and Construction

装配式、干作业、无粉尘、机械化施工和管理科学化，施工高效快捷。
Fabricated, dry operation, no dust, mechanical construction and scientific management, fast and efficient construction.

技术支持

Technical Support

提供技术集成、工业链接技术、系统技术等等。
Provide technical integration, industrial link technology, system technology and so on.

服务保障

Service Guarantee

国际化质量体系保障、行业技术标准验收、星级服务标准。
International quality system guarantee; industry technical standards of acceptance, star service standard.

海加相关的系统产品：

Related System Products of HIGHKA:

墙体系统 Wall System	吊顶系统 Ceiling System	专业防火系统 Professional Fireproofing Systems	专业隔音系统 Professional Soundproofing System
装饰板系统 Decoration Board System	轻钢龙骨系统 Light Steel Keel System	轻钢制造 Light Steel Manufacturing	装配式集成房屋 Modular Integrated House
地板系统 Floor System	地坪系统 Artesian Floor System	装配式玻璃隔断墙系统 Fabricated Glass Partition Wall System	等等..... So On.....