



ACA SERIES PRODUCTS

Through-colored
Fiber Cement Board



CONCH VENTURE



Safe
& Reliable



Quality
Guaranteed



High-quality
Board



Advanced
Technology

INTRODUCTION TO COMPANY

Committed to creating
a zero-benzene,
formaldehyde-free, safe
and
healthy home.

Year **2013**

The company was established
Listed on the Main Board of the
Hong Kong Stock Exchange
(Stock Code: 00586.HK)

2

Major main brands

Conch Venture ACA Series Products
Silica-free Carbon-negative Board ACB Series
Products

12+

Application fields

Widely used in external wall insulation
and decoration, internal wall
decoration and protection,
flooring, and other application
fields.

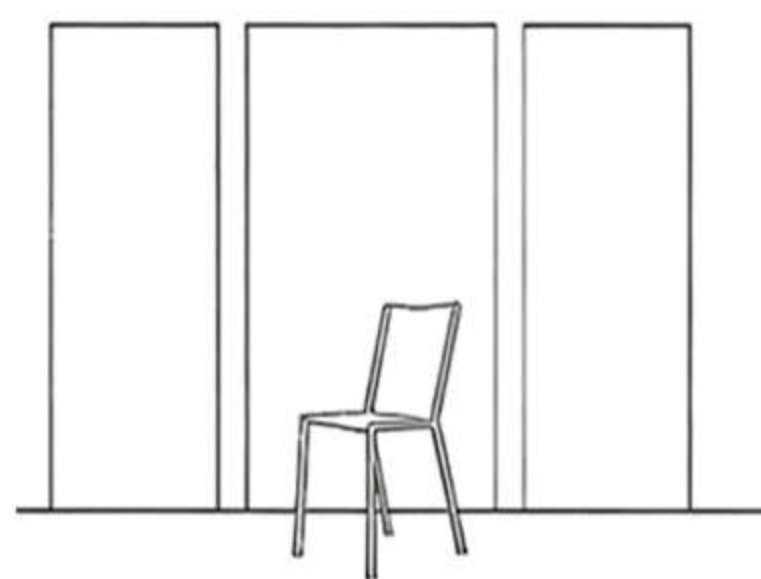
500+

Numbers of projects
With the accumulation of more than
500 projects, we have solidified a
professional foundation in the fiber
cement board field.

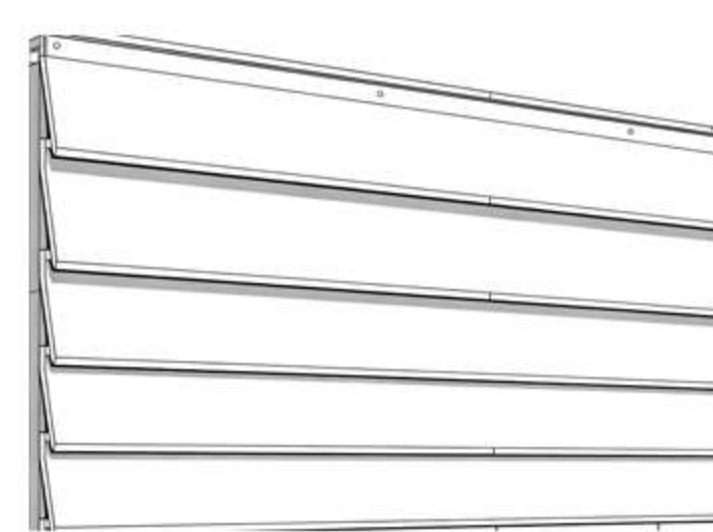


China Conch Venture Holdings Limited was listed on the Main Board of the Hong Kong Stock Exchange on December 19, 2013 (Stock Code: 00586.HK). It is a large enterprise group providing one-stop energy-saving and environmental protection solutions, with its business covering municipal solid waste incineration for power generation, new energy materials and energy storage product manufacturing, lithium-ion battery recycling and circular utilization, new building materials, port logistics, etc.

Anhui Conch Venture New Energy-saving Building Materials Co., Ltd. is a wholly-owned enterprise invested and established by China Conch Venture Holdings Limited, and has established Bozhou Conch Venture New Energy-saving Building Materials Co., Ltd. in Bozhou City. It specializes in the production of Conch Venture ACA and Silica-free Carbon-negative board ACB series products, which are widely used in external wall insulation and decoration, internal wall decoration and protection, flooring, table tops, wall material linings, ceilings, floor slabs, billboards, cabin partitions, fireproof boards, furniture partitions, as well as post-processing fields such as coating, perforation, and embossing.



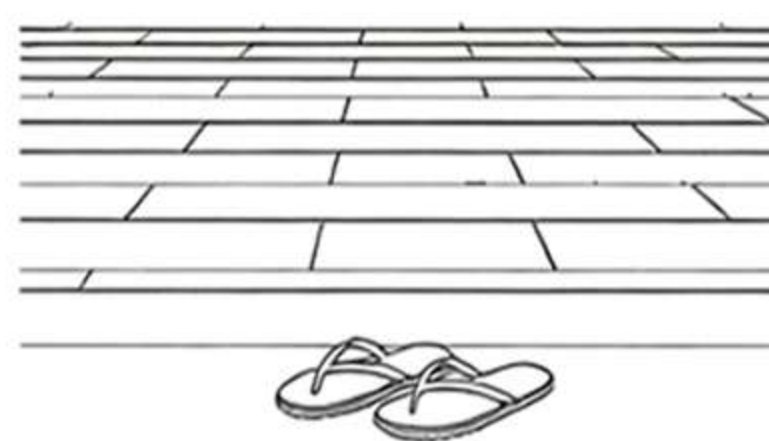
Formaldehyde-free
Inorganic
Decorative Panel



Siding Planks



Through-colored Board



Flooring



Outdoor Decking

PRODUCT INTRODUCTION



Specification: 1200/1220mm*2400/2440/3050mm*(6/8/10/12/15/20)mm

The ACA Through-colored Board application system is widely used in the exterior curtain wall decoration of various commercial, industrial and civil buildings, the exterior wall renovation of old buildings, and the decoration of humid areas such as subway tunnels and basements. Due to its excellent fire and water resistance performance and the uniform color appearance of the whole board, the Through-colored Board has been widely used in architectural decoration. The main raw materials of ACA Through-colored Board are high-grade cement, plant fiber, quartz sand, mineral pigments and other materials. It has a smooth surface, delicate texture, matte texture, and the whole board is of uniform color. There are multiple colors to choose from, which can be used in mixed and matched combinations of various colors. It can also be processed in multiple ways such as perforation, grooving, and carving, enabling architects to realize rich and free design ideas.



Brick Red



Dark Gray



Light Gray



White

COMPARISON OF ADVANTAGES AND DISADVANTAGES

MATERIAL NAME	FIRE/ENVIRONMENTAL RATING	SERVICE LIFE	MAIN ADVANTAGES	MAIN DISADVANTAGES
ACA Through-colored Board	A/ENF	Over 25 years	Lightweight and high-strength, excellent weather resistance, green and environmentally friendly, Class A fire resistance, dry construction, convenient construction, high cost-effectiveness, low later maintenance cost	Relatively heavy self-weight, high requirements for keels and structures
Stone Thin Panel Application System	A1/ENF	Over 25 years	Firm and wear-resistant, high hardness, easy to maintain	High construction cost, brittle panels, poor impact resistance, prone to yellow spots, water spots, cracks, high maintenance cost
Traditional Thin Plaster	/	3-5 years	Economical price	Greatly restricted by construction conditions, prone to cracking, easy to hollow and fall off in humid environments, large amount of waste generated on site



01.
Stone panels show yellow spots and water spots.



02.
Traditional thin plastering bulges and falls off.



03.
Traditional thin plastering construction generates a large amount of waste.

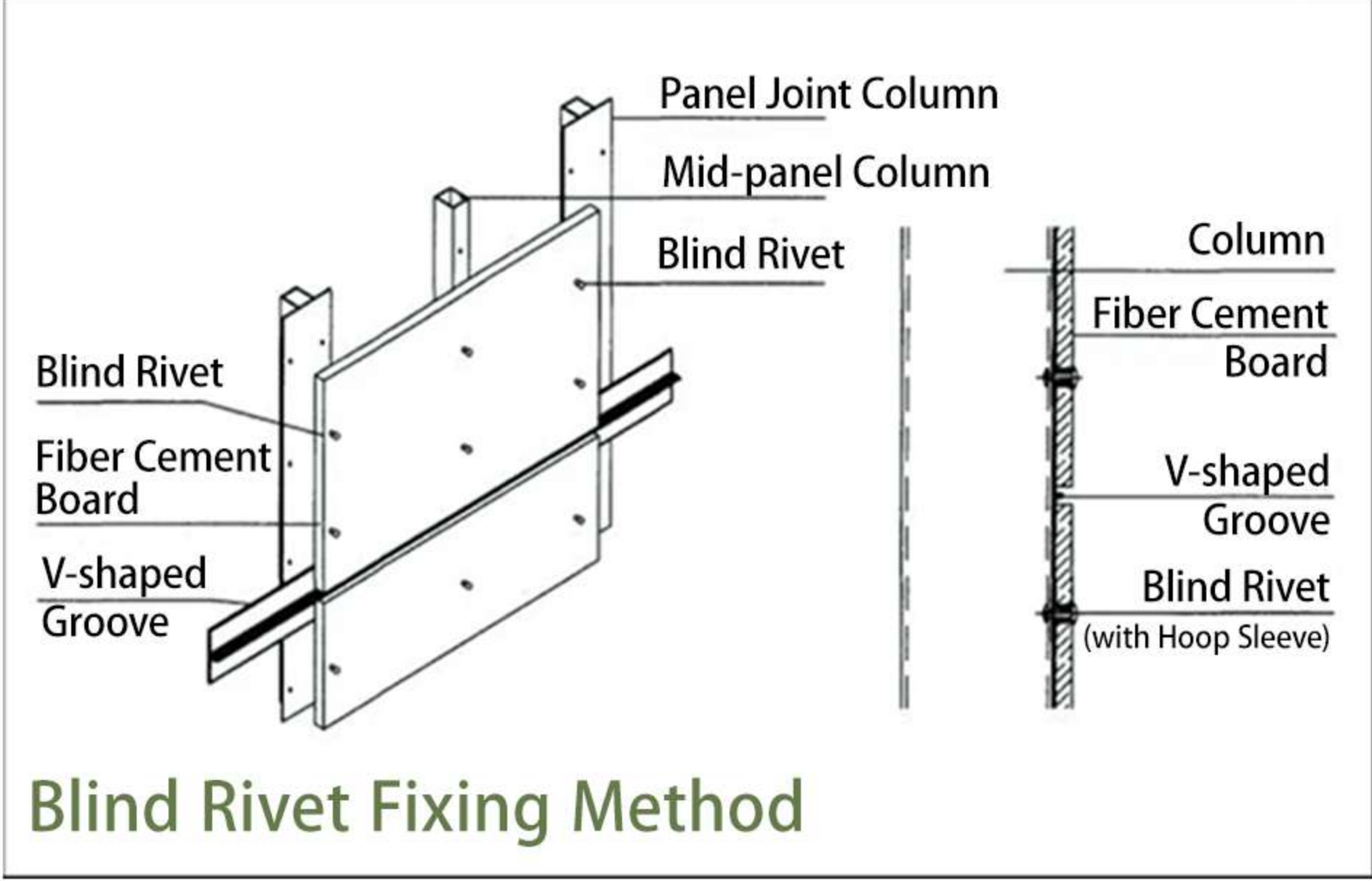
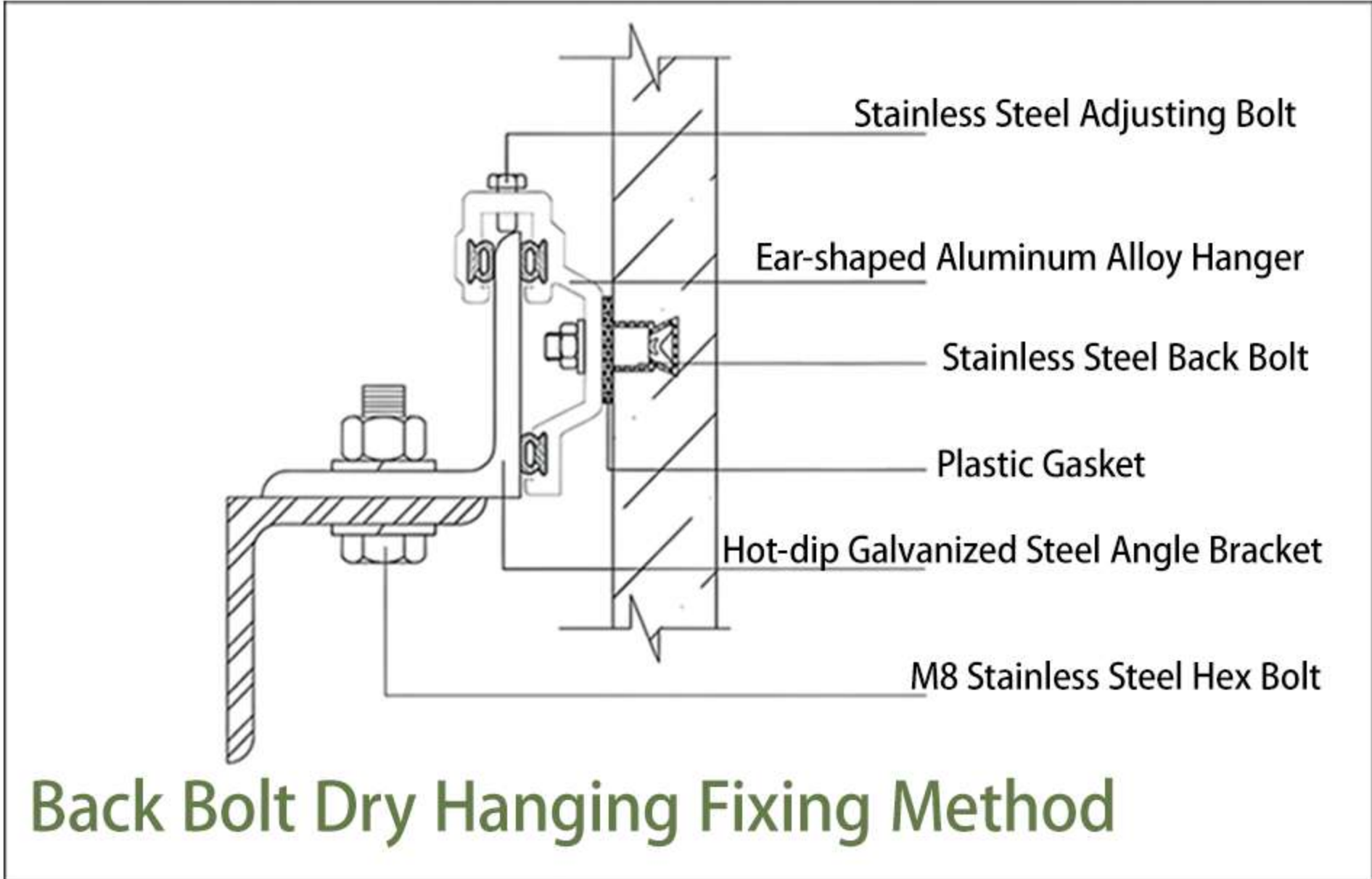


04.
Stone panels are brittle and easy to crack.

■ TECHNICAL PERFORMANCE COMPARISON

ITEM	ACA THROUGH-COLORED BOARD	STONE THIN PANEL	TRADITIONAL THIN PLASTERING
Base Surface Flatness	Factory systematic production, the substrate surface is flat and smooth	The surface of natural stone is flat and smooth	Manual on-site batch production, with individual differences among workers and randomness; the base surface is uneven, with waves, sand holes, etc.
Weather Resistance	Minimum temperature -20℃, no damage after 100 freeze-thaw cycles, no cracking, slight fading	Average, obvious fading, alkali reversion, and cracking	Average, cavities are prone to form thermal bridges, and long-term use will reduce energy-saving effects due to cracking
Impact Resistance Strength	2.33KJ/m ²	0.8-1.2KJ/m ²	/
Moisture-proof and Mil-dew-proof	Excellent, no pores on the surface, not easy to mildew in humid environments	Good, low water absorption, but water seepage and alkali reversion are prone to occur at joints	Poor, prone to hollowing and falling off in humid environments
Formaldehyde Emission	Not detected, meets Enf grade	Not detected, Enf grade	Not detected, Enf grade
Fire Performance	Class A non-combustible	Non-combustible	Class A non-combustible, but the fire resistance limit is low when the thickness is insufficient
Decorativeness	Uniform color throughout, multiple colors can be mixed and matched, cut into various sizes and shapes at will, with excellent decorative effect	Good decorative effect	The surface needs puttying, painting, single decorative effect, and flatness depends on construction technology
Thermal Insulation	Excellent thermal insulation performance	Average	Poor
Surface	Smooth finish, consistent gloss, good appearance, no color difference	Smooth surface, bright, consistent gloss, good appearance, but there will be color difference	Greatly affected by climate, prone to flower spots, streak marks, and sagging, color difference is difficult to control
Constructability	Prefabricated dry operation, easy to install, not restricted by seasons, climate and geographical environment, suitable for all year round	Phased construction, cross-operation, long construction period	Phased construction, cross-operation, highly restricted by weather factors, cumbersome procedures

■ INSTALLATION METHODS



Back bolt dry hanging: The drilling depth is slightly 2-3mm deeper than the insertion depth of the back bolt. The distance from the edge drilling to the edge of the panel is 100-150mm, and the spacing between intermediate drillings is 300-500mm. It is necessary to ensure that the drilling positions avoid the internal steel bars or other reinforcing structures of the panel.

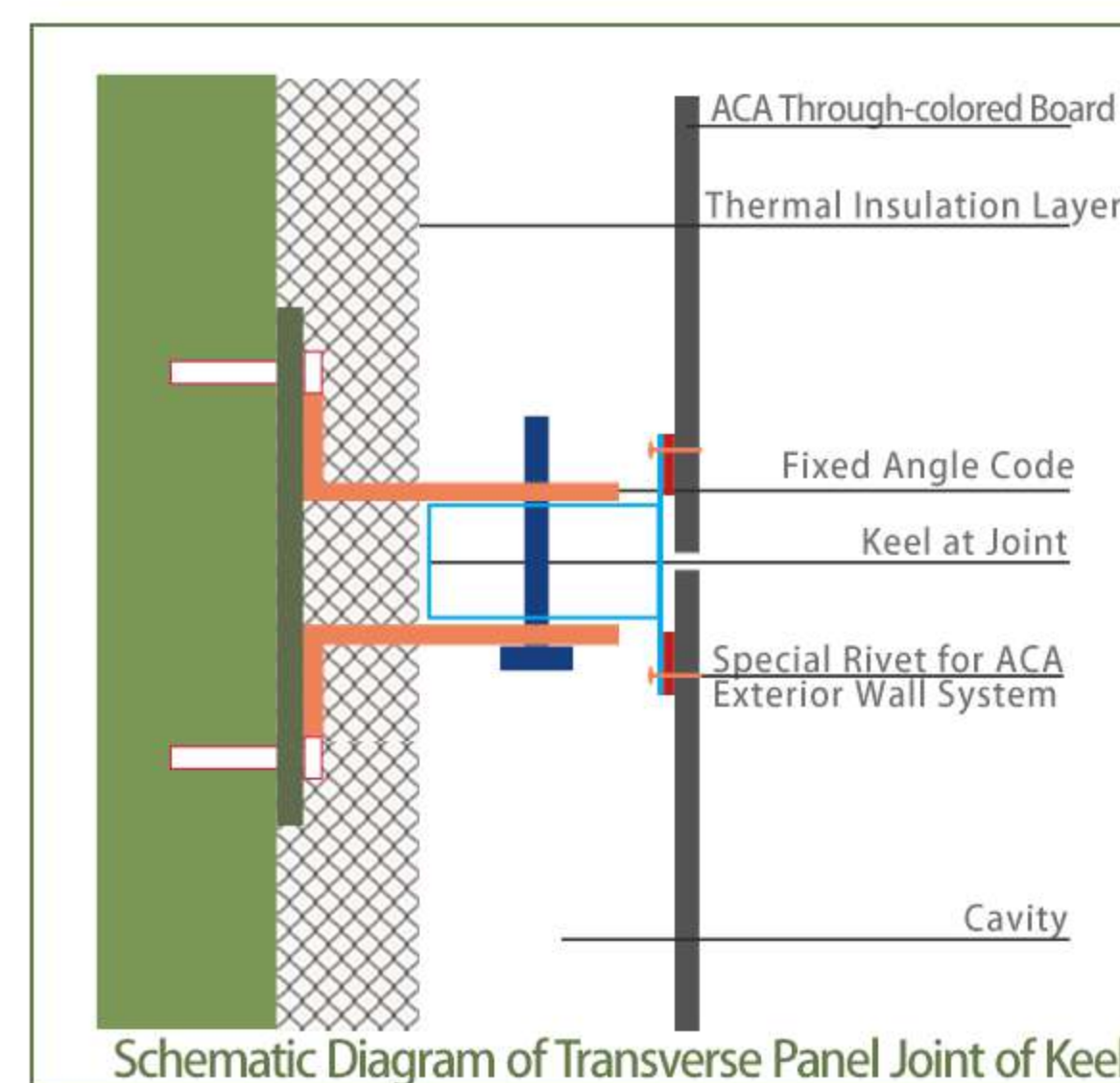
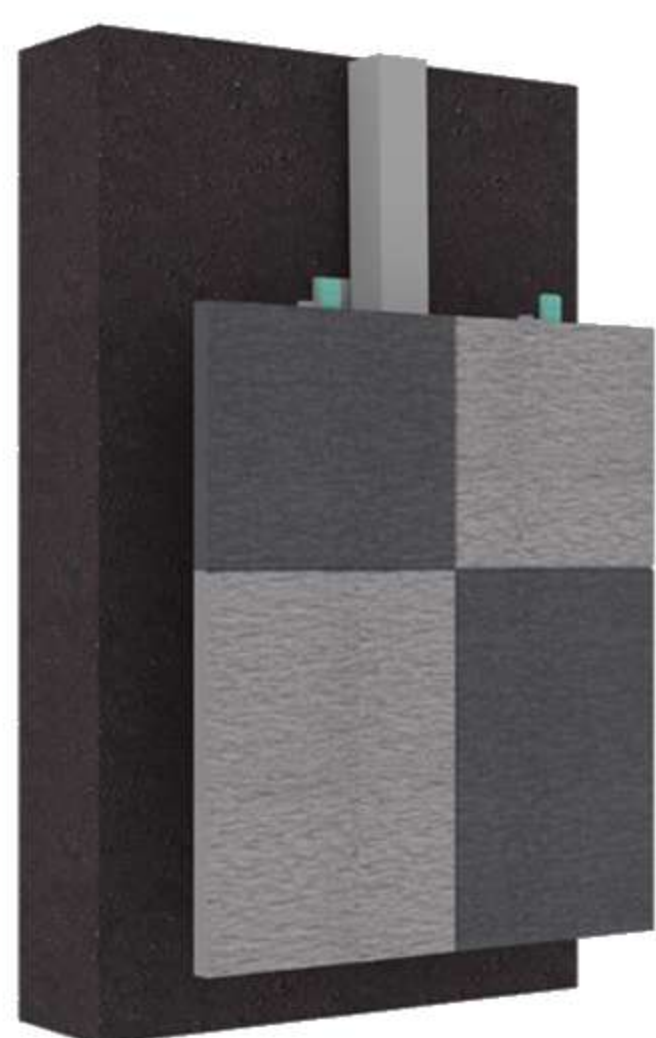
Blind rivet: The gap width between adjacent panels is generally controlled at 3-5mm. The blind rivets are fixed in the order of edge first and then middle. The spacing between adjacent rivets should be evenly distributed, generally 300-500mm, to ensure uniform stress on the panels.

ACA THROUGH-COLORED BOARD

PREFABRICATED SYSTEM

The ACA prefabricated system adopts a modular combination design, and its core consists of panels, keel frames, and customized fasteners. The system achieves a stable connection between panels and keels through materials such as Astor rivets. The keels are accurately connected to the main building structure with the help of adjustable supports, and support steel keels or aluminum alloy keels to flexibly adapt to different scenarios. For thermal insulation requirements, the system fills the keel cavity between the panels and the external wall of the building with high-efficiency thermal insulation materials, and innovatively reserves a ventilation cavity of a specific width. While ensuring excellent thermal insulation performance, it effectively improves the moisture-proof and air permeability of the system and extends the service life of the external wall.

DISPLAY OF ACA THROUGH-COLORED BOARD EXTERIOR WALL SYSTEM



APPLICATION OF ACCESSORIES



Expansion Bolt



Angle Bracket



M8*65 Screw Rod



Special Rivet for Exterior Wall System



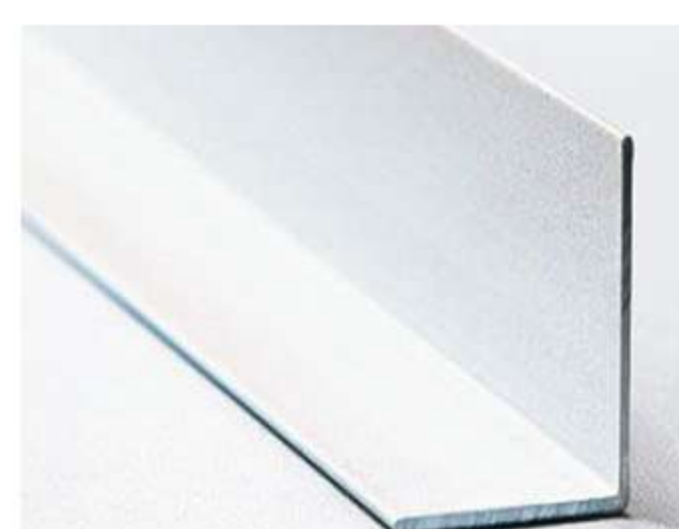
Nut



Flat Washer



Concave Keel (Arranged at Panel Joints)



L-shaped Keel (Arranged at Edge Finishing)



Square-shaped Keel (Arranged at Panel Center)

THROUGH-COLORED BOARD PERFORMANCE PARAMETERS

[Implementation Standard: JCT412.1-2018]

ITEM	INDUSTRY STANDARD	TEST DATA
Density	≥1.40g/cm³	1.55g/cm³
Thermal Conductivity	≤0.35w/(m-k)	0.33w/(m-k)
Moisture Content	≤10%	8%
Wet Expansion Rate	≤0.25%	0.16%
Water Impermeability	Allowed to have wet marks after 24h test, no cracking or delamination	Compliant
Freeze Resistance	No cracking or delamination after 50 freeze-thaw cycles	Minimum temperature -20°C, no cracking or delamination after 100 freeze-thaw cycles
Flexural Strength in Saturated Water	≥13MPa	16.0MPa
Impact Resistance	-	2.0KJ/m²

APPLICATION FIELDS



- ▶ Commercial and residential buildings such as office buildings, hotels, commercial plazas, upscale residential communities, and villas;
- ▶ Public buildings such as stadiums, schools, and convention centers;
- ▶ Exterior renovation of old buildings;
- ▶ Damp environments such as subways, tunnels, and basements.





CASE APPRECIATION



▶ Application of Dark Gray



▶ Application of Beige



▶ Color Mixing Matching



▶ Application of Brick Red



▶ Application of Dark Gray



▶ Application of Light Gray



Supreme Quality, Sincere Service



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Stock Code :600585/HK00914

Wuhu Conch Technology Co., Ltd.

Stock Code :02560

China Conch Venture Holdings Limited

Stock Code :00586.HK

Conch Venture Environmental Protection Technology Co., Ltd.

Stock Code : 00587.HK

Conch (Anhui) Energy-saving Environmental Protection New material Co., Ltd.

Stock Code :000619



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