

ACA[®] Exterior Wall Decorative Panel



ACA exterior wall decorative panel is a new type of building wall material integrating decoration, fireproof and waterproof functions. Relying on advanced production technology and high-quality raw materials, the product not only ensures outstanding decorative effects that accurately match different architectural design styles, but also has multiple practical performances. It features high-end decorative effects, ultra-durable protection, high efficiency, energy saving and environmental protection, high weather resistance, anti-pollution, acid rain resistance, strong adhesion, good compactness, and convenient construction. There are various types of decorative coatings, including fluorocarbon metal paint, fluorocarbon solid color paint, fluorocarbon color printing, real stone paint, and acrylic finish. The colors are full, and the textures are realistic, which can meet the personalized decoration needs of different scenarios. The product can be widely used in residential buildings, office buildings, shopping malls, hotels, old building renovations, hospitals, schools, chemical plants and other application scenarios.

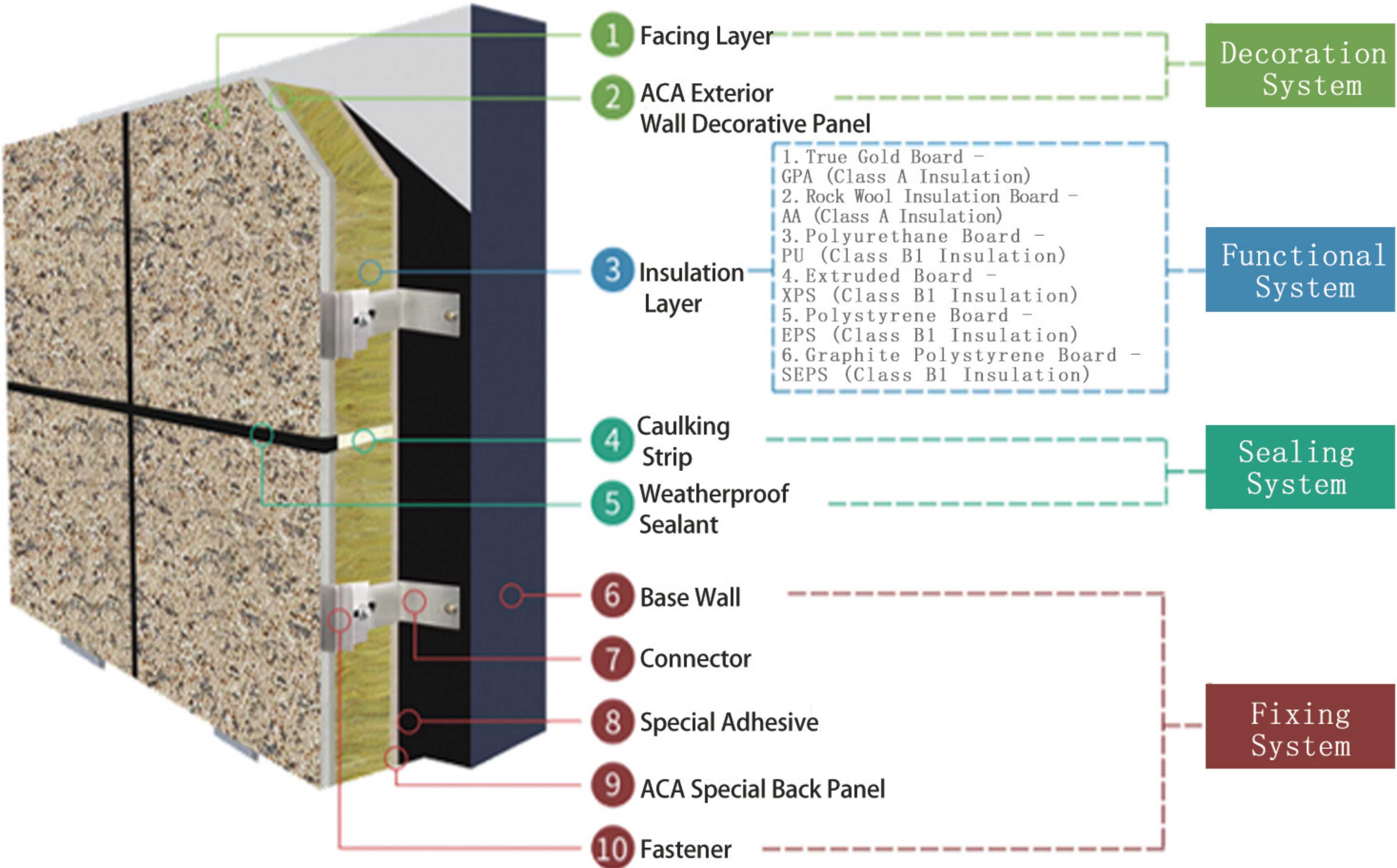


[SPECIFICATION OF ACA EXTERIOR WALL DECORATIVE PANEL]

Thickness(mm)	Width(mm)	Length(mm)
8	1220	2440
Remark: Plates with other widths and thicknesses can be produced according to users' special requirements.		

[COMPOSITION OF ACA EXTERIOR WALL DECORATIVE PANEL SYSTEM]

The ACA exterior wall decorative panel installation system is mainly composed of a facing layer, ACA exterior wall panel, insulation layer, ACA special back panel, special adhesive, etc., from the outside to the inside. The ACA exterior wall decorative panel features Class A fire resistance, rich facings and full colors. In terms of installation method, it adopts the construction process of "base layer inspection – setting reference lines – pasting finished panels – installing anchors – joint treatment – removing protective film", which is simple and quick to install, reducing construction costs.



【FEATURES OF ACA EXTERIOR WALL DECORATIVE PANEL】



Green and Environmentally Friendly

The board is 100% free of asbestos and other toxic substances, with a stable chemical and physical structure. It will not decompose and mildew, has no radiation, no pollution, and is green and environmentally friendly.



Fireproof and Flame-Retardant

ACA exterior wall decorative panel can reach A1 fire rating standard, will not burn, and will not produce toxic smoke or transfer flames even in a fire.



Thermal Insulation

ACA exterior wall decorative panel has excellent thermal insulation properties, which can greatly reduce the energy consumption of building heating and cooling, thereby significantly reducing energy expenditure.



Energy Saving and Consumption Reduction

The product has significant energy-saving advantages, can effectively avoid the cold and heat bridge effect, and fully meets the actual energy-saving needs of buildings.



Waterproof and Moisture-Proof

It has excellent waterproof performance, will not deform or mildew due to moisture, ensuring long-term use effect.



Lightweight and High-Strength

ACA exterior wall decorative panel is lightweight, high-strength, and has good impact resistance. It has high compressive strength and flexural strength, strong integrity, earthquake resistance and crack resistance, and is solid and safe.



Excellent Weather Resistance

It has undergone multiple rain cycles, cold-heat cycles, and freeze-thaw resistance tests, and is water-resistant, acid-resistant, alkali-resistant, and weather-resistant, and can be used in harsh climate environments.

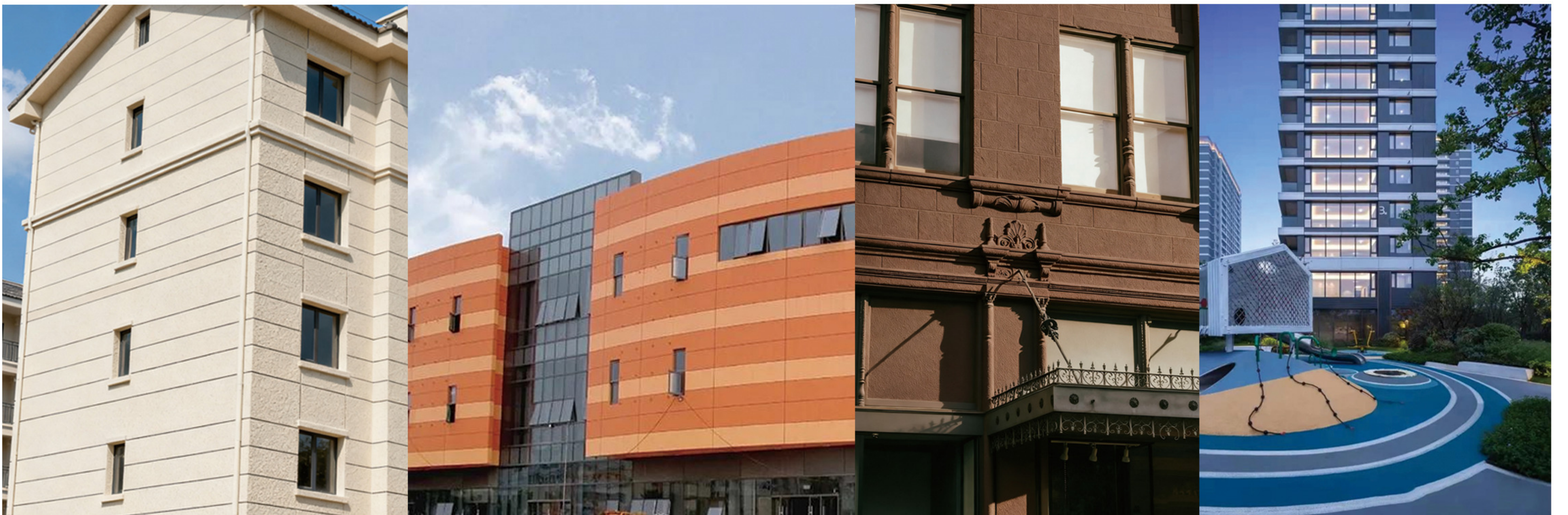


Easy to Install

The installation method combining adhesion and anchoring is simple and quick, and is not restricted by seasonal climate and geographical environment. It is suitable all year round, significantly shortening the project cycle, which not only accelerates the project progress, but also saves construction costs and reduces the comprehensive cost.

【APPLICATION FIELDS】

- ACA exterior wall decorative panel is suitable for commercial buildings such as office buildings, office towers, and shopping malls; Public buildings such as high-end residential buildings, old renovation projects, government office buildings, schools, and hospitals; as well as cultural tourism towns, hotels, chemical plants, seaside buildings and other cultural tourism and special building scenarios.



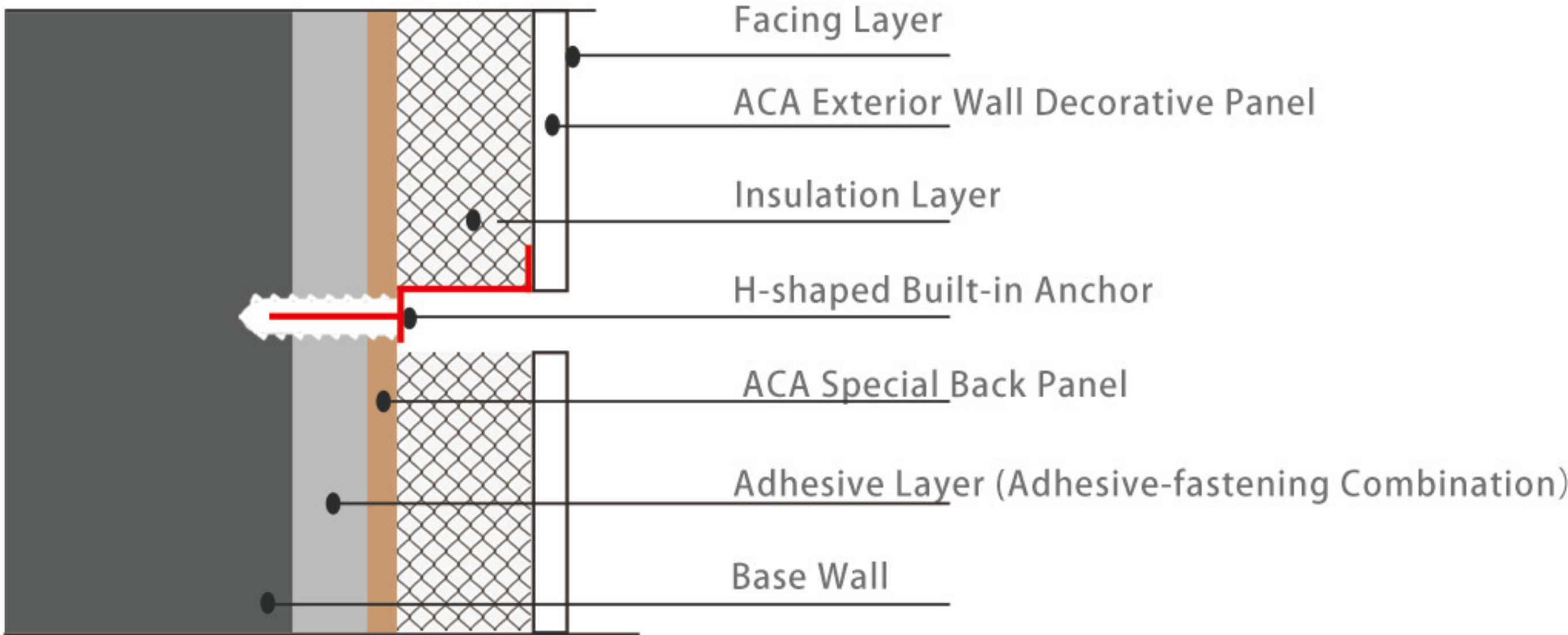
[COMPARISON OF ADVANTAGES AND DISADVANTAGES]

Item	ACA Exterior Wall Decorative Panel	Traditional Thin Plaster	Stone Curtain Wall
Base Flatness	Systematically produced in the factory, the base plate surface is flat and smooth	Manually scraped on site, with large individual differences and randomness among workers, the base surface is uneven, with wrinkles, sand holes, etc.	The surface of natural stone is flat and smooth
Environmental Friendliness	Green and environmentally friendly, free of asbestos, formaldehyde and other volatile toxic substances	On-site mixing of mortar generates a large amount of waste (about 15kg/m²), coatings contain VOC, and benzene boards are difficult to recycle	Natural stone mining destroys the ecology, and keel steel has high energy consumption
Decorative Effect	Excellent	Average	Excellent
Constructability	Fast and convenient, not restricted by seasonal climate and geographical environment, suitable all year round	Constructed in phases, with cross operations, highly restricted by weather factors, and cumbersome procedures	Constructed in phases, with cross operations, and the construction period is long
Fire Safety	Class A1 fire resistance, non-combustible when exposed to fire, fire resistance limit ≥3h	Mostly use B1 grade benzene boards/extrudedboards, which are easy to melt and drip at high temperatures, releasing toxic gases, with low fire protection rating, and thin plaster layers are prone to cracking, causing fire hazards	Good fire resistance performance
Paint Finish	Sprayed by factory dust-free automatic spraying line, the paint surface is smooth, with consistent gloss, good appearance and no color difference	Manually sprayed, greatly affected by climate, prone to blooming, bar shadows, sagging, and color difference is difficult to control	Polished in the factory, the surface is smooth and bright, with consistent gloss and good appearance, but there will be color difference
Service Life	More than 25 years	3-5 years	More than 25 years
Cost-Effectiveness	Moderate price, good comprehensive performance, high cost-effectiveness	Low price, poor comprehensive performance, low cost-effectiveness	Expensive price, high later maintenance cost, low cost-effectiveness

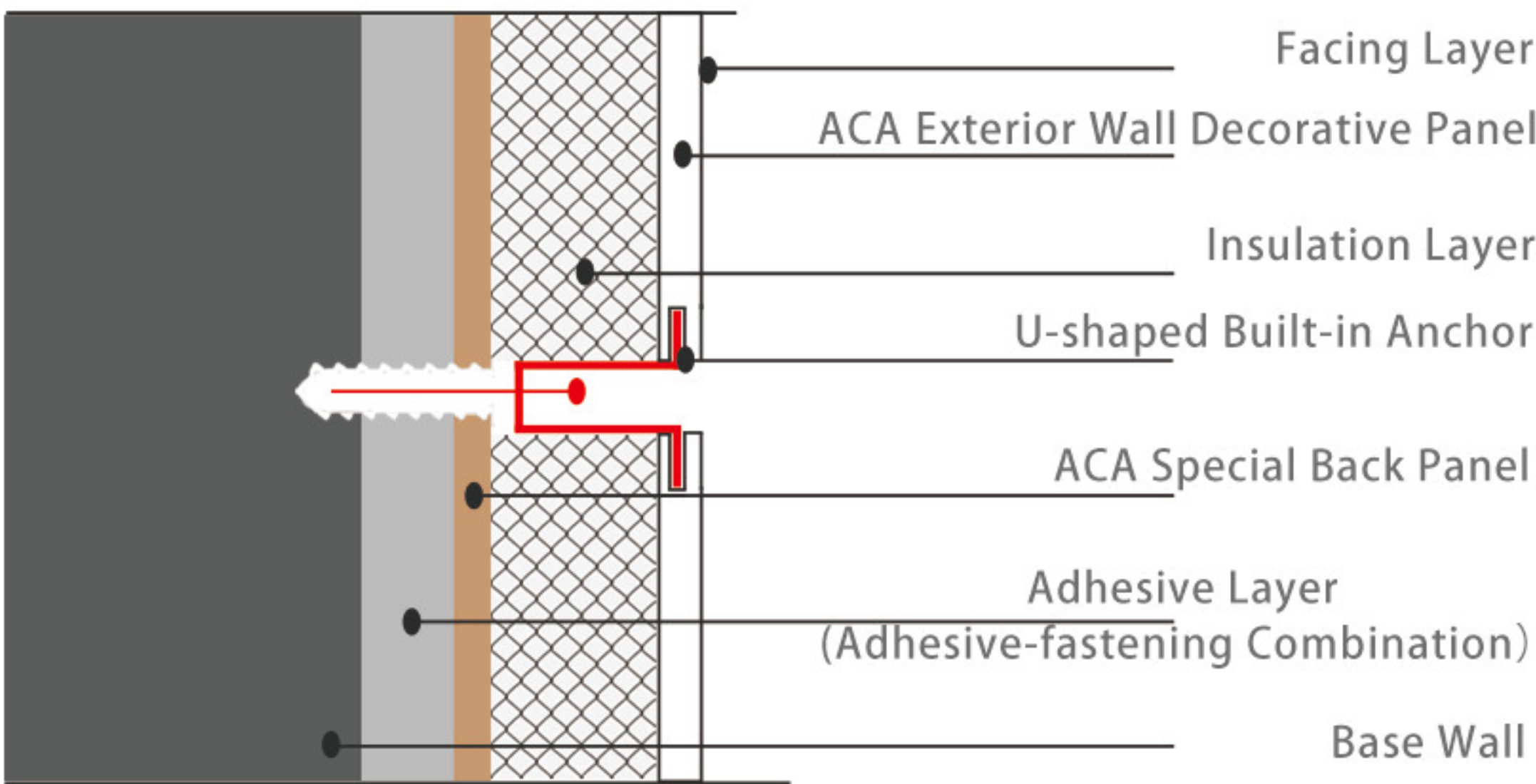
[PERFORMANCE PARAMETERS]

Item	Industry Standard	Test Data
Water Absorption / (g/m²) (1h Immersion)	≤500 g/m²	45g/m²
Impact Resistance (3J)	No more than 4 damaged points among 10 impact points	0
Water Impermeability	No penetration on the inner side of the system	No penetration on the inner side of the system
Thermal Conductivity	Meet relevant standard requirements	0.044 W/(m·K)
Bending Load (N)	Not less than the self-weight of the board	Bending load (1271N) is greater than the self-weight of the board (139N)
Acid Resistance (48h/96h)	No abnormality	No abnormality
Stain Resistance (%)	≤10%	2%
Adhesion (Grade)	≤1	1
Frost resistance	No cracking or delamination after 50 freeze-thaw cycles	Minimum temperature -20° C, no cracking or delamination after 100 freeze-thaw cycles

[INSTALLATION METHOD]



Bonding and Anchoring Method (H-shaped Anchor)



Bonding and Anchoring Method (U-shaped Anchor)

For more information, please contact us

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