Decoration & Energy-Saving Integration System for External Wall

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The Brief Analysis for

Traditional System Problems

■ 1. Coating Plastering System

2. Curtain Wall System

Introduction of Decoration & Energy-saving System on External Wall

Coating Plastering System



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Introduction of Decoration & Energy-saving System on External Wall Aluminum Curtain Wall System



Introduction of Decoration & Energy-saving System on External Wall Stone Curtain Wall System_____



Introduction of Decoration & Energy-saving System on External Wall

Glass Curtain Wall System





Introduction of Decoration & Energy-saving System on External Wall Glass Curtain Wall System





Self-explosion



Introduction of Decoration & Energy-saving System on External WallGlass Curtain Wall SystemFalling off







Summary of Problems of Traditional External Wall System

Coating Thin Plastering System: Poor Weather Resistance, Too Many Structural Layers, Poor Compatibility, and the Failure of Bonding

Aluminum Panel Curtain Wall System: Cavity structure, Easy to Deform, Poor Stain Resistance, Vertical Flow Pollution.

Stone Curtain Wall System: Rigid Connection, Poor Impact Resistance, Stone Rupture, Falling off

Glass Curtain Wall System: Self-explosion, Falling off



Key Points of External Wall System



Material Introduction for Aluminum Surface Decoration & Energy-saving Integration Panel

art



Introduction of Panel

Aluminum Surface Rock Wool Decoration & Energy-saving Integration Panel uses Fluorocarbon Coating Aluminum Panel as decorative surface, Rock Wool as insulation core material, and Glass Fiber reinforced cement-based membrane as the backing layer, produced by hot pressing technology.



Fluorocarbon Roller Coating on Surface



Curtain Wall Single Panel

Fluorocarbon Roller Coating



Comparison of Outdoor Exposure Experiments

Weatherability

Comparison of Gloss Retention between Polyester Paint and

Unexposed part

Fluorocarbon coating will not fade away for 40

years; no chalking issue

Exposure part: lightly washed, to remove the pulverization layer

10 years of Florida (flat) exposure, at least equal to 40 years (outside wall) exposure in the general area.



Nano Self-cleaning Surface Layer





PPG Industries

 $1 \sim 3 \mu m$ TiO2 Nano coating on the surface of Alu luorocarbon Panel;

Super oxidation and super-hydrophilicity





• Standard Width

400, 500, 600 and 900mm

• Length

No limit

Standard Thickness

25, 30, 40, 50, 60, 80 and 100mm



Color of Panel

The optional colors: solid color and imitation stone color.



KF-4010 Bright Silver



KF-4051 Champagne Silver



KF-4054 Silver Metallic





KF-4048 Bronze Metallic



KF-4074 Silver Gray



KF-4012 Copper Metallic



KF-4042 Gold Metallic



KF-4075 Iron Sand Gray





Insulation Core Material—Rock Wool



Adopted Vertical rock wool not Horizontal Type.

Thermal Conductivity: ≤0.045W /(m·k)

Density: ≥100Kg /m³

Flammability: A level (Nonburning)

Hydrophobicity: ≥98%





Glass Fiber reinforced cement-based membrane No need of substrate treatment, and enhance the adhesion between panel and substrate wall.





Production Technology

Microporous infiltration foaming principle, universal viscosity characteristics

Micropore Penetrating Foam, Continuous Foaming Process; Hot pressing Process; Stable Quality; High Production Efficiency



Comparison of Production Technology















Project Comparison



Optics Valley Creative Building

Karamay Engineering Training Basein, Xinjiang Province

Project Comparison





Introduction of Construction Technology



Aluminum Surface Decoration & Energy-saving Integration System consists of Alu surface rock wool decoration & insulation integration panel, connecting accessories and sealing accessories, which can be installed by Stick & Nail Combination Installation Method and Keel Dry Hanging Installation Method.



Structural Features

Interlocking of boards, to ensure its safety and reliablity.











1. Measuring and Setting out



2. Installing Keel



EXAMPLE 1 Keel Dry Hanging Construction Technology

3. Installing Panel





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4. Caulking Sealing





按 企 口 顺 序 拼 接 板 材 并 用 自 攻 螺 钉 固 定 板 材 Splicing the panels according to the tongue and groove sequence and fixing them with self-tapping screws









1. Measuring and Setting out



2. Preparation & application of bonding mortar



3. Pasting and fixing of panel





4. Caulking Sealing



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Decorative effect of finished project



Landmark Projects and System Characteristics

- Excellent Decorative Effect
- System Security
- Construction Convenience
- Long Durability of Decorative surface



Haier International

Plaza







Hebei Baoding Maternal and Child Health Hospital



Baoding Maternal and Child Health Hospital



Government Office Building



Renovation of Government Office Building







Super High-rise High Grade Residence

(height: 187m)

Country Garden, Qingchuan House

Safety & Durability



Country Garden, Qingchuan House



Built in 2011





Core Advantages

Beautiful Fluorocarbon roller coating, self-cleaning

Construction adaptability

Convenient

Safety

Hot pressing, grooving joints

Long-lasting

Decorative surface layer; installation methods



Simple Introduction of Other Two External Wall Systems

Part

Application of Ceramic Surface Decoration & Energy-saving Integration System



Application of Ceramic Surface Decoration & Energy-saving Integration System

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Application of Stone Surface Decoration & Energy-saving Integration System

School Building

Sales Center Project

Stone Surface Decoration & Energy-saving Integration System

高品质防水系

Comparison of Impact Resistance

THANK YOU

Joaboa Tech Building the Splendid home with you together!