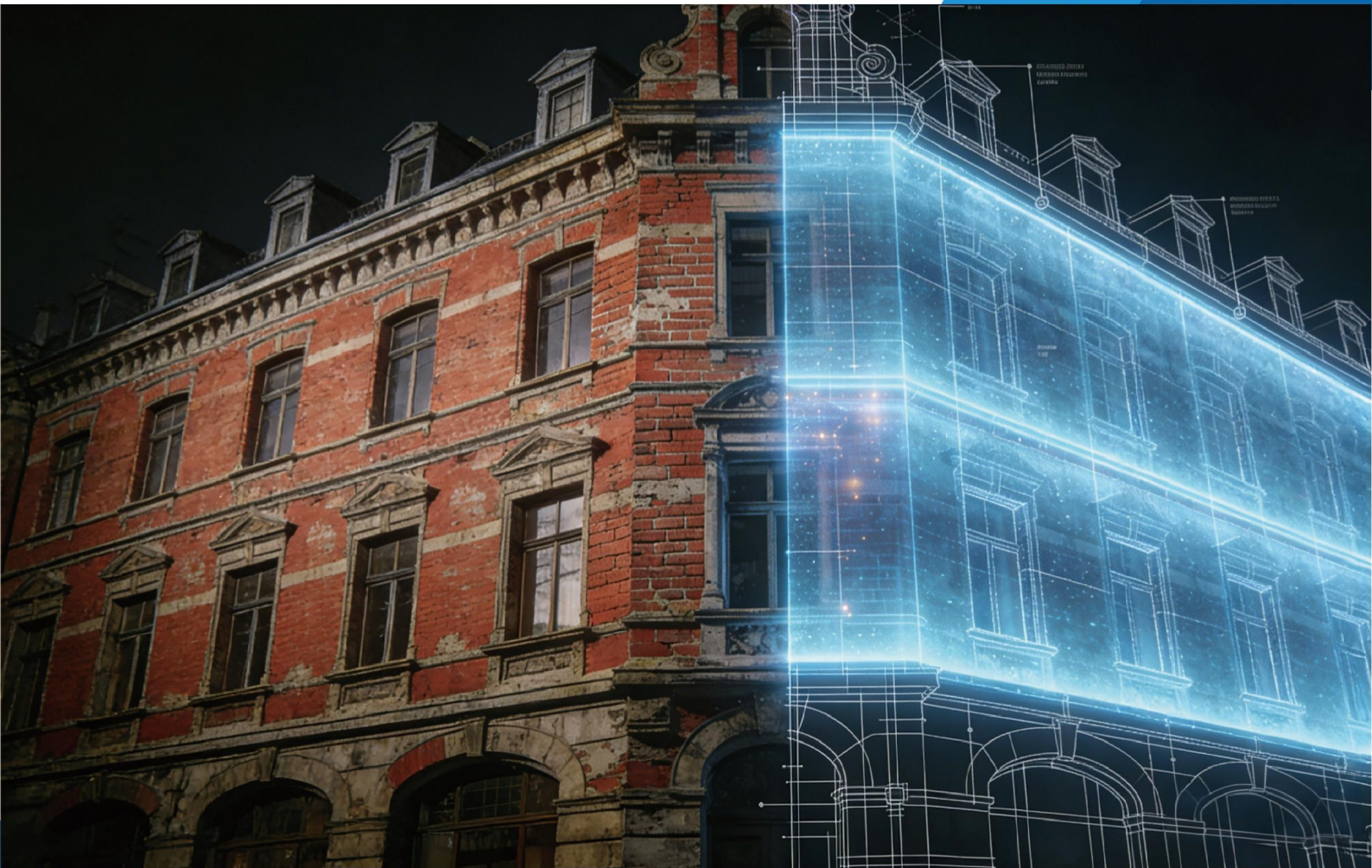


Hebei Woqin Advanced Materials



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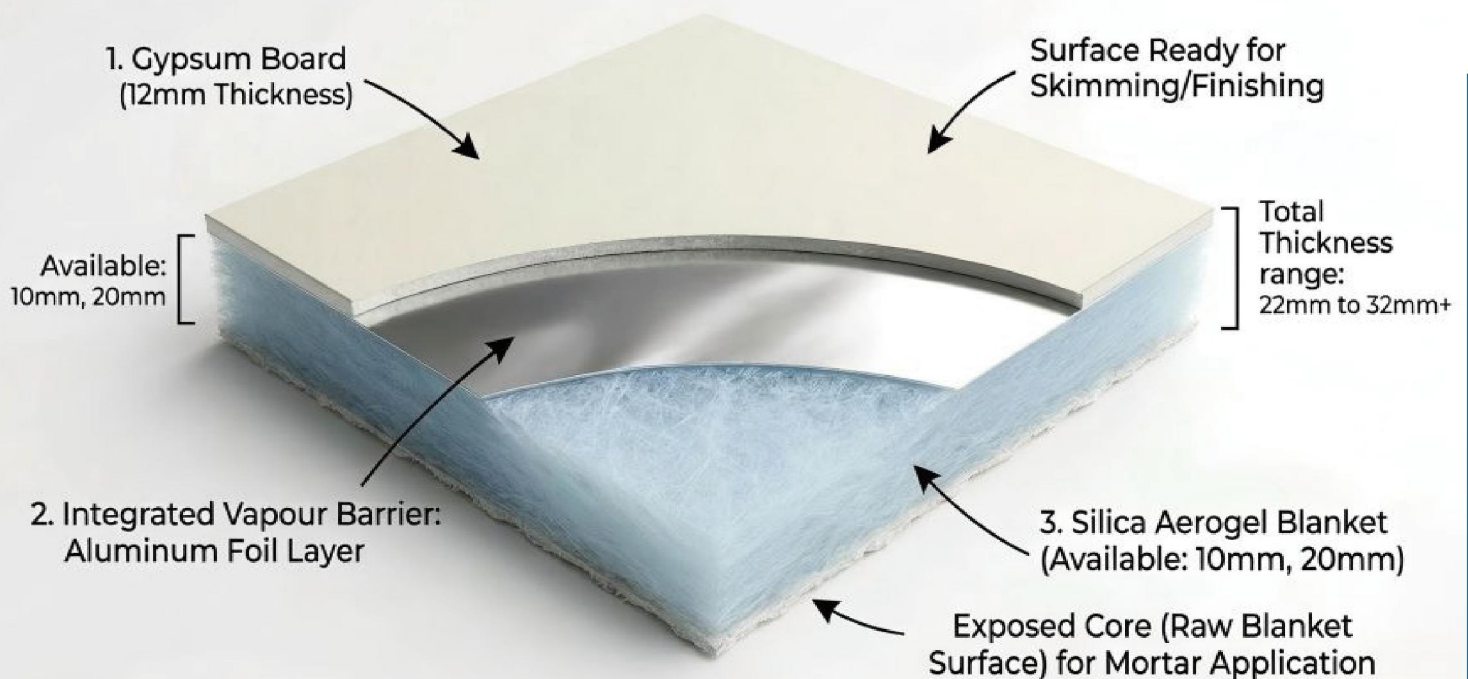


Innovating the Future of Ultra-Thin Thermal Envelopes.

Plasterboard-Aerogel Panel

The Ultimate Space-Saving IWI Solution

GYP SUM-ALUMINUM-AEROGEL COMPOSITE PANEL (HIGH-PERFORMANCE IWI)



01

Applications & Problems Solved

Designed specifically for Internal Wall Insulation (IWI) in heritage buildings and tight residential spaces. Solves the "Space vs. U-Value" Dilemma: Delivers extreme thermal resistance without eating up valuable interior "carpet area".

02

Eliminates Condensation & Mold

The integrated Aluminum Foil acts as a Vapour Control Layer (VCL), preventing interstitial condensation in old masonry walls. Labor Saving: Ready for direct wall application and standard plaster skimming in one go.

03

Structure & Dimensions

Plasterboard Facing: 12mm standard thickness.
Aerogel Core Thickness: 3mm, 5mm, 10mm, 15mm, 20mm (10mm & 15mm are standard stock).
Vapor Barrier: Integrated Aluminum Foil VCL.
Technical Specs:
Core Thermal Conductivity: 0.016 W/(m·K) @ 0°C.
Standard Size: 2400mm × 1200mm.

MgO-Aerogel Panel

Heavy-Duty: MgO-Aerogel Composite Panel



Applications & Problems Solved:
Engineered for high-traffic environments (corridors, schools, public housing) and moisture-prone areas (basements, kitchens).



Solves Fragility Issues:
Traditional gypsum boards dent and break easily. Our MgO facing provides exceptional impact and flexural strength.



Solves Dampness & Rot:
Unlike paper-faced gypsum, MgO is 100% rot-proof and highly resistant to moisture degradation.



Ultimate Fire Safety:
Upgrades the entire wall system to a Class A1 Non-Combustible rating.

MGO-AEROGEL COMPOSITE INSULATION PANEL (ULTRATHIN HIGH-PERFORMANCE IWI)

1. High-Strength MgO Board
(5mm - 15mm Thickness)

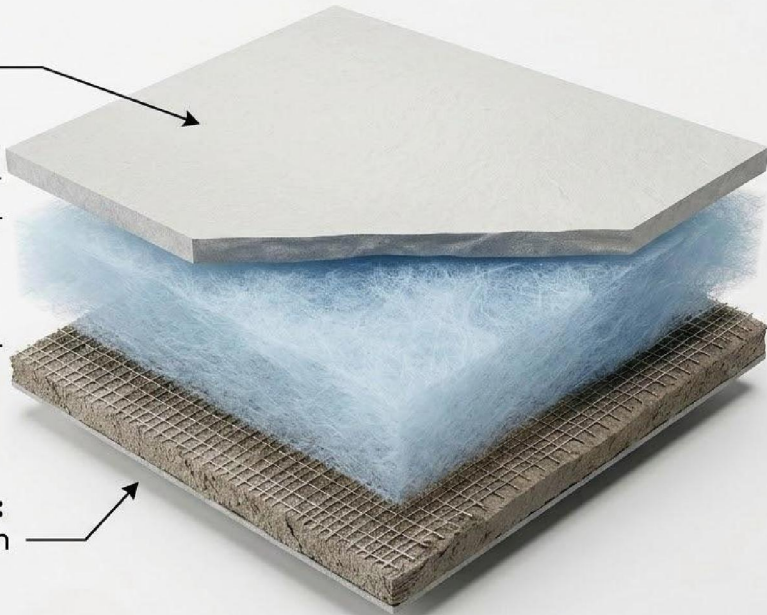
5mm
15mm

2. Class A1
Non-combustible
Silica Aerogel
Blanket

Available:
→ 10mm
20mm

3. Rough Backing for Adhesion:
Polymer-modified Mortar with
embedded Fiberglass Mesh

Total
Thickness
range:
15mm to
35mm+



STRUCTURE & DIMENSIONS

MgO Board Facing: 5mm to 15mm thickness options. **Aerogel Core Thickness:** 5mm to 20mm (Customizable).

Vapor Barrier: Integrated Aluminum Foil VCL.

Technical Specs: Core Thermal Conductivity: 0.016 W/(m·K) @ 0°C.

Standard Size: 2400mm × 1200mm.

Flexible MCM-Aerogel Panel

Step Finish:

Eco-Friendly Flexible MCM-Aerogel Panel

Applications & Problems Solved

The ultimate rapid-retrofit solution. Combines extreme thermal insulation and a high-end decorative finish in a single step. Zero wet trades required.

Heritage Matching

We offer 90%+ texture similarity customization to match existing historical brick, stone, or wood finishes seamlessly.

Curved Surface Application

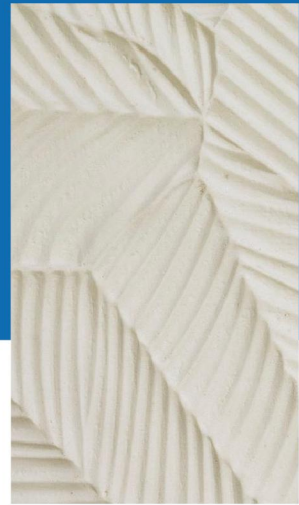
Highly flexible facing allows for easy installation on curved walls and complex architectural columns.

100% Eco-Friendly & Safe

The MCM (Modified Clay Material) finish is crafted from natural stone powder. Zero formaldehyde, zero VOCs, and completely non-toxic.



Banana-leaf Pattern



星月石①
STARRY MOON STONE①
规格尺寸 Size
600×300 1200×600mm

星月石②
STARRY MOON STONE②
规格尺寸 Size
600×300 1200×600mm

星月石③
STARRY MOON STONE③
规格尺寸 Size
600×300 1200×600mm

星月石④
STARRY MOON STONE④
规格尺寸 Size
600×300 1200×600mm

• 产品可按客户要求定做多种颜色与规格

The product can be customized in various colors and specifications according to customer requirements

Structure & Dimensions

MCM Facing: Natural stone/clay powder composite (Available in Slate, Rammed Earth, Wood Grain, etc.).

Aerogel Core Thickness: 5mm to 20mm.

Technical Specs :

Core Thermal Conductivity: 0.016 W/(m·K) @ 0°C.

Fire Rating: Class A.

Standard Size: 1200mm × 600mm / 600mm × 600mm.

Weight: Ultra-lightweight at approx. 6kg/m².