

Four Sides Frame Rockwool Cleanroom Sandwich Wall Panel

Our Product Introduction

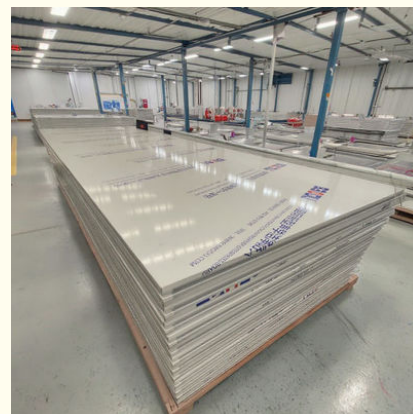
Basic Information

- Place of Origin: HEBEI, CHINA
- Brand Name: BAODU
- Certification: CE
- Model Number: Four Sides Frame Rockwool Cleanroom Sandwich Wall Panel
- Minimum Order Quantity: 500square meters
- Price: \$7-10square meter
- Packaging Details: For sandwich panel and color steel sheet, we use the plastic packing . If the clients need special packing will according to their requirements.
- Delivery Time: 15days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 5000 Square Meter/Square Meters per Day



Product Specification

- Width: 980mm, 1180mm
- Product Name: Four Sides Frame Rockwool Cleanroom Sandwich Wall Panel
- Keyword: Rockwool Cleanroom Sandwich Wall Panel
- Steel Facer Thickness: 0.4-0.8mm
- Core Materials: Rockwool
- Outer Plate Material: PPGI
- Frame Thickness: 0.6/0.8mm
- Applications : Pharmaceutical Cleanroom, Electronic Cleanroom, Food Cleanroom, Etc.
- Lead Time: 2-7day
- Max Length: 9000mm
- Highlight: **Cleanroom Rockwool Sandwich Panel, Cleanroom Sandwich Wall Panel, Four Sides Frame Rockwool Sandwich Panel**



Product Description

Four Sides Frame Rockwool Cleanroom Sandwich Wall Panel

Product Overview-----

The Rockwool Clean room Wall Panel is a multi-layered high-performance composite panel designed for demanding environments such as biopharmaceuticals, precision electronics, and food processing. Its core is made of basalt rock melted at 1,500°C and spun into ultrafine fibers (diameter $\leq 7\mu\text{m}$). Using a 3D pendulum process, the fibers form a dense mesh structure, laminated with galvanized/stainless steel plates (0.5-1.2mm thickness options) and bonded via polyurethane adhesive under continuous thermal pressure. This achieves a structural-functional integrated solution.



Features-----

Core Features & Technological Breakthroughs

Ultimate Fire Safety

Fire Ratings: * Class A1 (Non-combustible)

* Fire Resistance Test Data: * 100mm thickness: 240 minutes (GB/T 9978.1 fire endurance test)

Cleanroom Environment Adaptability

* Surface Treatment Technologies: * Antibacterial Coating: Nano-silver ions ($\text{Ag}^+ \geq 150\text{ppm}$) with $>99.9\%$ inhibition rate against E. coli/Staphylococcus aureus

* Anti-static Layer: Surface resistivity $10^6\text{-}10^9\Omega$, suitable for Class 1000+ cleanrooms

* Airtightness Metrics: * Joint leakage rate $<0.01\%$ @ 50Pa pressure difference

* Compatible with integrated FFU filter mounting systems

Mechanical & Environmental Performance

* Impact Resistance: 9mm steel-faced panel withstands 50J impact without cracking

* Eco-certifications:

* $\geq 30\%$ recycled content

* TVOC emissions $<220\mu\text{g}/\text{m}^3$

* Reaction to Fire A2-s1,d0

Product Parameters-----

| Category | Parameters |
|------------------------|--|
| Physical Properties | |
| - Standard Thickness | 50mm / 75mm / 100mm / 150mm (±0.5mm tolerance) |
| - Surface Density | 50mm: 12.8kg/m²; 100mm: 18.5kg/m² |
| - Flexural Strength | ≥0.45MPa (300mm span, concentrated load) |
| Thermal Performance | |
| - Thermal Conductivity | 0.036 W/(m·K) @ 24°C average |
| - Linear Shrinkage | ≤0.3% @ 80°C/48h |
| Acoustic Performance | |
| | |

| | |
|-------------------------------------|---|
| - Sound Insulation (Rw) | 50mm: 28dB; 100mm: 35dB |
| - Noise Reduction Coefficient (NRC) | 0.75-0.85 (500-2000Hz range) |
| Chemical Resistance | |
| - Acid/Alkali Resistance | No corrosion after 72h immersion in 5% HCl/NaOH |
| - UV Resistance | $\Delta E < 2.0$ after 3,000h QUV accelerated aging |
| | |

Production Process-----

1. Raw Material Selection:
- * Basalt rock ($\text{SiO}_2 \geq 45\%$, $\text{Al}_2\text{O}_3 \geq 14\%$) + slag ($\geq 70\%$ recycled)
2. Fiber Production:
- * Electric furnace melting (1,500-1,600°C) → Four-roller centrifugal spinning (7,200rpm) → Fiber diameter 4-7μm
3. Curing Process:
- * Phenolic resin spraying (formaldehyde emission $\leq 0.05\text{ppm}$, EN 717-1) → Curing oven at 230°C
4. Lamination:
- * Steel plate pretreatment (degreasing → phosphating → nano-ceramic coating) → Continuous hot pressing (1.2MPa, 180°C)
5. Quality Control:
- * Online X-ray inspection (void detection) → Laser thickness gauge ($\pm 0.1\text{mm}$ accuracy) → Batch fire performance testing

Successful Project-----

Semiconductor Wafer Fabs (Class 10 Cleanrooms)

* Solution:

* Wall-ceiling system integrated with HEPA filters

* Grounding resistance $<1 \times 10^6 \Omega$, compliant with SEMI F47 voltage sag standards

* Case Study: 32,000 m² deployed in a Taiwan 12-inch wafer fab project

Facilities

* Key Technologies:

* Radius corners ($R \geq 50\text{mm}$) to eliminate cleaning dead zones

* Pre-installed ports for real-time particle monitoring

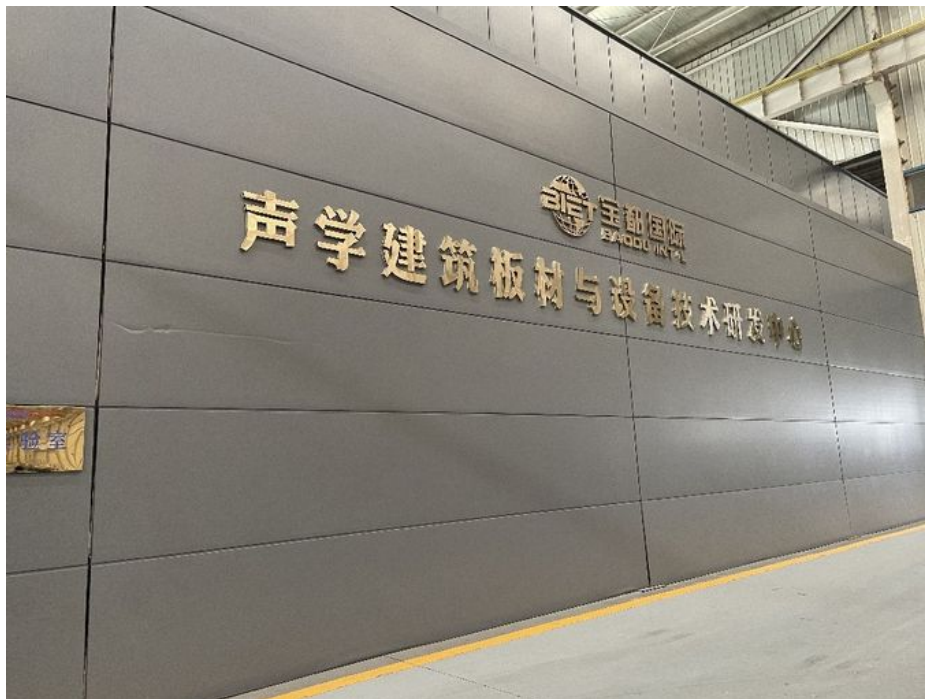
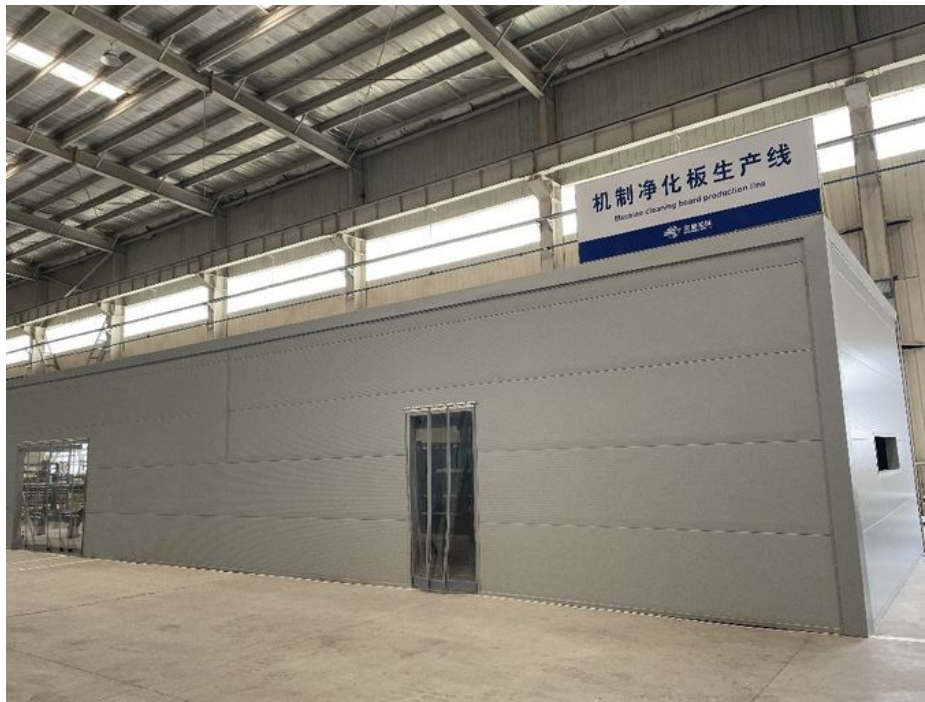
Data Center Retrofits

* Energy Efficiency Data:

* U-value $0.28 \text{ W/m}^2\cdot\text{K} \rightarrow 18\%$ annual cooling energy savings



Our company-----



Baodu International Advanced Construction Material Co.,Ltd was established in January 2010 with the office in Beijing and factory in Hebei, China.

Baodu is a designer, manufacturer, supplier and exporter of acoustic sandwich panel, insulated metal panel, profiled steel sheet, perforated metal sheet, steel structure and warehouse.

Baodu has the patented and customized double connection sandwich panel production line and imported steel plate bending machines from Swiss land and Germany.

Baodu has an annual output of 6 million square meters of acoustic sandwich panels, 100000 tons of steel structures and 1 million square meters of profiled steel sheet.

Baodu has a professional design team with more than 10 years' experience, including 5 senior engineers, 20 engineers, and 35 technicians. Baodu has over 70 intellectual property rights, More than 30 registered trademarks, CE certification and Russian GOST certification etc.

Baodu have successively served key projects in in Dubai, Mongolia, Philippine, Mexico, US , Australia, Iraq, etc. the key projects is as below : Mongolia MCS Group Gold Mine Project; Philippines Malivans 2x330MW Coal-fired Power Plant Project; China Eastern Airlines Maintenance Warehouse Project of Beijing Daxing Airport

FAQ



STRIVE TO SURPASS CUSTOMER'S EXPECTATIONS

Q1. Are you trading company or factory?

A1. We have our own factory so that we can provide the best price for you.

Q2. Where is your factory?

A2. Our factory is located in Yongqing Hebei Province which is only one

Q3. How is your production capacity of sandwich panel?

A3. Our sandwich panel production line is imported from Europe and we can produce 3000 square meters per day.

Q4. What are your advantages.

A4. As a high technology company in the construction material industry, we have our own technician team, most of whom have more than 10 years experience. And we also have the strict quality control in our production lines.

Q5. What is your payment term and delivery time?

A5. We accept the T/T or L/C. And the Ali trade assurance is also acceptable. As for the delivery time, we need make the production plan for each order. Usually, it takes about 10 days after we confirm the order.

Q6. How about the sample order?

A6. We provide free samples, but you need pay the freight for it.

Q7. How about your After-sales policy?

A7. Baodu wants to provide the best products and service to each client. We will provide the online after-sales training. If necessary, you can visit our factory.



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