

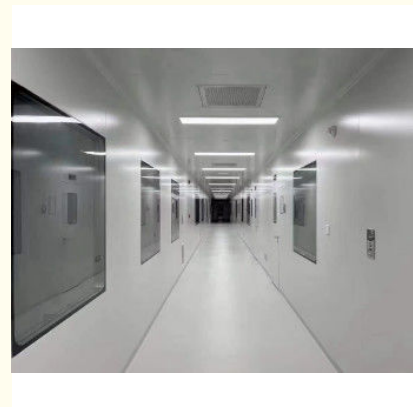


Cleanroom Sandwich Panels Specialized Solutions For High Hygiene Standard Environments

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: \$20square 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

- Product Name: Cleanroom Sandwich Panels - Specialized Solutions For High Hygiene Standard Environments
- Width: 980mm, 1180mm
- Keyword: Cleanroom Sandwich Wall Panel
- Steel Facer Thickness: 0.4-0.8mm
- Core Materials: Rockwool
- Outer Plate Material: PPGI
- Applications : Pharmaceutical Cleanroom, Electronic Cleanroom, Food Cleanroom, Etc.
- Max Length: 9000mm
- Certification: CE ISO
- Color: Customized
- Highlight: **High Hygiene Standard Cleanroom Sandwich Panels**
, Specialized Cleanroom Sandwich Panels

Product Description

Cleanroom sandwich panels - Specialized solutions for high hygiene standard environments

Product Overview-----

Cleanroom sandwich panels are composite panels specially designed for high-cleanliness demand scenarios such as medical care, electronics, and food. They are composed of a surface layer (galvanized steel plate /PVC film), core material (rock wool/aluminum honeycomb), and an antibacterial coating. They comply with the ISO 14644-1 cleanliness standard and provide an integrated solution featuring seamless surfaces, fire safety, and quick installation.



Features-----

Class A fire resistance: The rock wool core material meets the GB 8624 A1 non-combustible standard, eliminating fire hazards.

Antibacterial and antifungal: The surface has passed the ISO 22196 antibacterial test, with an antibacterial rate of $\geq 99.9\%$.

Anti-static design: Optional ESD coating (surface resistance 10^6 to $10^9\Omega$), protecting precision instruments.

Chemical resistance: Resistant to acid and alkali cleaners with pH ranging from 3 to 11, suitable for laboratories and pharmaceutical factories.

Quick installation: Modular assembly structure shortens the construction period by 30%, and supports on-site cutting.

Environmental protection certification: E1 environmental protection standard, passed SGS heavy metal-free test.

Product Paramenters-----



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
Production Process	
1. Raw Material Selection:	$\Delta E < 2.0$ after 3,000h QUV accelerated aging
* Basalt rock ($SiO_2 \geq 45\%$, $Al_2O_3 \geq 14\%$) + 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: 32,000m² deployed in a Taiwan 12-inch wafer fab project

Facilities

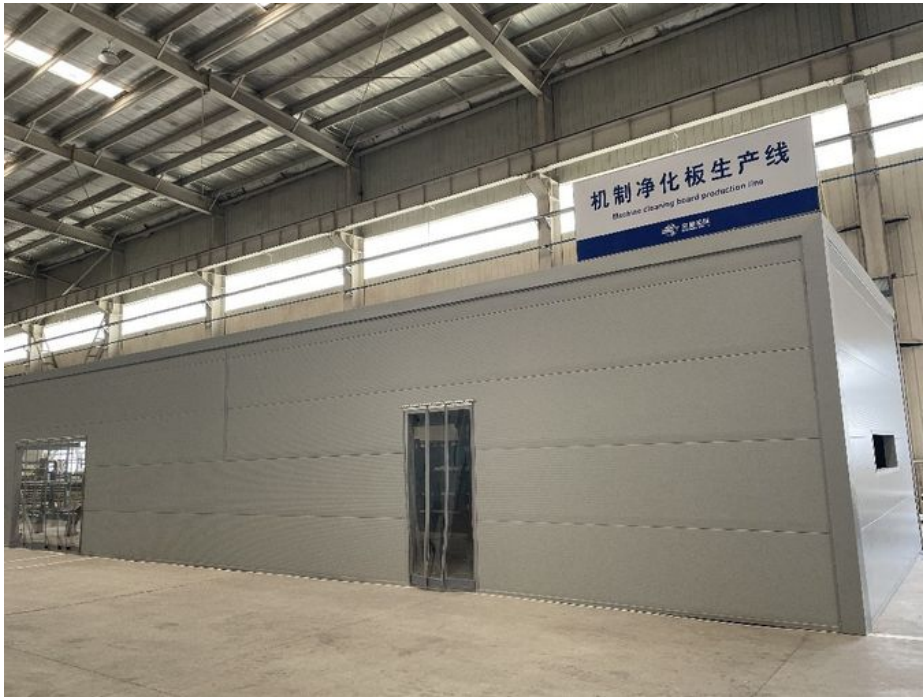
- * Key Technologies:
- * Radius corners (R $\geq 50\text{mm}$) to eliminate cleaning dead zones
- * Pre-installed ports for real-time particle monitoring

Data Center Retrofits

* Energy Efficiency Data:

* U-value 0.28 W/m²·K → 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

; Iraq Basra Gas Turbine Combined Cycle Power Plant Expansion Project; Dubai Hasyan 4*600MW clean coal-fired power plant project. Welcome your coming to Baodu for a visit and cooperation!



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