



Modular Clean Room Wall Panels With 1180mm Width And Sandwich Panel

Our Product Introduction

Basic Information

- Place of Origin: HEBEI, CHINA
- Brand Name: BAODU
- Certification: CE
- Model Number: Baodu Factory Standard Modular Clean Room Wall Panels
- 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

- Product Name: Baodu Factory Standard Modular Clean Room Wall Panels
- Width: 980mm, 1180mm
- Keyword: Clean Room WALL Sandwich 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: 30day
- Color: Customized
- Highlight: **Modular Clean Room Wall Panels, Sandwich Panel Clean Room Wall Panels, 1180mm Clean Room Wall Panels**

for more products please visit us on baodupanel.com

Baodu Factory Standard Modular Clean Room Wall Panels

Product Overview-----

Clean Room Sandwich Panel is a high-performance composite panel specifically engineered for ultra-clean environments such as pharmaceutical labs, semiconductor factories, hospitals, and food processing facilities. It consists of a core material (rock wool, aluminum honeycomb, or polyurethane) sandwiched between two premium metal/PVC skins, offering seamless surfaces, antibacterial properties, and strict compliance with international cleanliness standards (e.g., ISO 14644-1 Class 5-8).



Features-----

Ultra-Smooth & Non-Porous Surface

Electrostatic Dissipative (ESD) or Antimicrobial Coating options to prevent particle adhesion and bacterial growth.

Seamless joints reduce contamination risks, compatible with daily chemical/UV sterilization.

Fire Safety & Durability

A2 Fire Rating (EN 13501-1), non-combustible core materials ensure safety in confined spaces.

Resistant to moisture, chemicals (pH 3-11), and corrosion for 15+ years lifespan.

Thermal & Acoustic Insulation

Low thermal conductivity (0.022-0.028 W/m-K) reduces energy costs.

Noise reduction up to 30dB (ideal for vibration-sensitive labs).

Lightweight & Modular Design

Weight: 10-18kg/m² (40% lighter than concrete), easy to cut/install with tongue-groove systems.

Customizable thickness (50-150mm) and sizes (max. 12m length).

Technical Specifications-----

class	Maximum Particles/m ³						FED STD 209E equivalent
	>0.1um	>0.2um	>0.3um	>0.5um	>1 um	>5 um	
ISO 1	10	2					
ISO 2	100	24	10	4			
ISO 3	1,000	237	102	35	8		Class 1
ISO 4	10,000	2,370	1,020	352	83		Class 10
ISO 5	100,000	23,700	10,200	3,520	832	29	Class 100
ISO 6	1,000,000	237,000	102,000	35,200	8,320	293	Class 1,000
ISO 7				352,000	83,200	2,930	Class 10,000
ISO 8				3,520,000	832,000	29,300	Class 100,000
ISO 9				35,200,000	8,320,000	293,000	Room Air

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

Application Scenarios-----

Medical field:

Operating rooms, ICU wards, and sterile drug production workshops: Utilize antibacterial properties to reduce infection rates and meet GMP certification requirements.

Electronic industry:

Semiconductor cleanrooms, precision instrument assembly lines: Anti-static optional models (surface resistance value $10^6 \sim 10^9 \Omega$) to prevent dust adhesion.

Food processing:

Dairy and beverage filling workshops: Corrosion-resistant and easy-to-clean design, in compliance with HACCP food safety standards.













Biological laboratories:

P2/P3-level laboratories, animal rooms: Airtight splicing technology + chemical-resistant, ensuring environmental safety.

Public buildings:

Metro stations, airports: Class A fire resistance + high wear-resistant surface, balancing safety and aesthetics.

Related Purification Equipment-----

 <p>Cleanroom Door</p> View More	 <p>Roll-up Door</p> View More	 <p>Modular Clean Room</p> View More	 <p>Modular Operating Room</p> View More
 <p>Hospital Sliding Door</p> View More	 <p>Stainless Steel Medical Cabinet</p> View More	 <p>Sandwich Board</p> View More	 <p>SUS 304 Washing Sink</p> View More
 <p>Air Shower Room</p> View More	 <p>Clean Bench Workbench</p> View More	 <p>Fan Filter Unit</p> View More	 <p>Pass Box</p> View More

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 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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