

## GPM100 PHARMACEUTICAL & BIO-TECHNOLOGICAL CLEANROOM WALL PANEL SYSTEMS

### INTRODUCTION:

The concept of the partition wall systems is designed to accommodate the most stringent cleanroom facilities and the wall panel is totally flush and smooth, without protruding parts or grooves and cavities. The pipes, conduits and wires can be installed inside the panel.

The wall system is framed with extruded aluminium to accept an interconnecting tongue forming a rigid panel to panel construction.

**GPM100 Pharmaceutical Cleanroom Wall Panel Systems is design to meet your most demanding criteria as:**

1. Cost effective & value engineering
2. Superior appearance
3. Non-demountable
4. Fast, flexible and easy installation
5. Fast delivery and competitive cost
6. Suitable for cleanroom 100 to 100K
7. Comply with GMP standard

**System:** Non-demountable wall panel system

**Design Standard:** Federal Standard 209E Cleanroom and Workstation Requirements  
ISO 14644 Cleanroom and Workstation Requirements  
EU-GMP and China GMP  
FDA

**Panel Type:** 100 mm thick

**Applications:** Pharmaceutical & Bio-technological Cleanroom

**Facings:** 0.5 mm PE Roll Coated steel skin, with or without Static Dissipative Surface Treatment  
Conductivity:  $R=10^6\Omega-10^9\Omega$   
Or 0.5mm PE Roll Coated, non-conductivity surface

The surfaces are protected with a film foil (0.05mm) for the prevention of scratches during transport and installation damages.

- Color:** Grey White (Close to RAL 9016)
- Core:** Aluminum Honeycomb, Rockwool, Paper Honeycomb
- Adhesive:** Rebon YB2002 (resin) mixed with YB8001 (Hardener) Epoxy Paste Adhesive  
Mixing Ratio, YB2002:YB8001=4:1
- Panel Dimension:** Width of the panel are 1200, 1182, 900 mm or ought size  
Height of panel is up to 5500 mm

**Table 1: Honeycomb Aluminum Panel Specification**

Description	Honeycomb Aluminium Panel
Non-Combustible	Class B1
Thermal Conductivity	<0.044 W/mk
Resists Temperatures	>100°C
Water Absorption	Moderate
Compression Resistance	>100kPa
Aluminum Core Thickness	0.06mm
Aluminum Honeycomb Diameter	D=17mm
Compressive Strength	>200 kPa
Flammable Gas Toxicity	Moderate

**Table 2: Rockwool Panel Specification**

Description	Rock Wool Panel
Fire Rating	>1 hour
Thermal Conductivity	<0.044 W/mk
Resists Temperatures	>1000°C
Water Absorption	Moderate
Compression Resistance	>40 Kpa
Noise Absorbing, at 125 Hz	0.07
Density, kg/m <sup>3</sup>	100 kg/m <sup>3</sup> ~120 kg/m <sup>3</sup>
Compressive Strength	150 kPa
Flammable Gas Toxicity	Moderate
Core Intenerate Temperature	>150°C