

PANEL SYSTEM

PRODUCT CATALOGUE

Panel system

www.youthfilter.com

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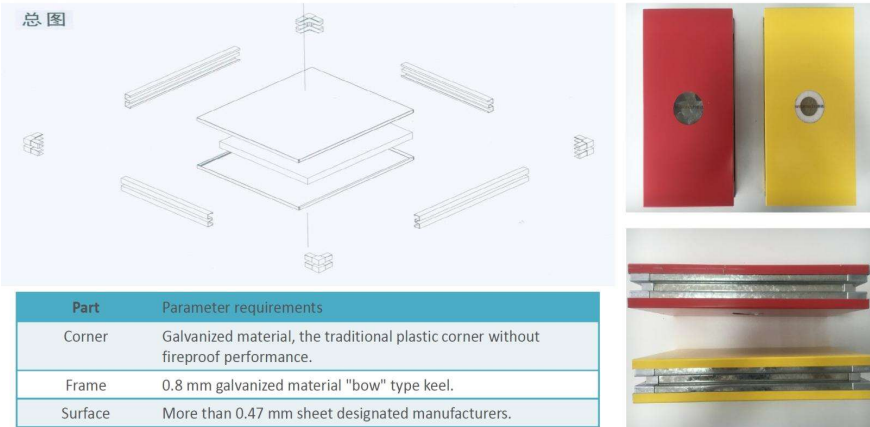
Metal Panel

Color coated steel panel products have excellent adaptability with its structure. It can be applicable in industry cleanroom, biology cleanroom and general office.

Steel option: cold steel plate, aluminum magnesium manganese color coating plate, stainless steel plate, titanium zinc alloy plate and other options

Coating: PE, PVDF

Sandwich materials: Paper Honeycomb, Aluminum Honeycomb, Rockwool, Polyphen



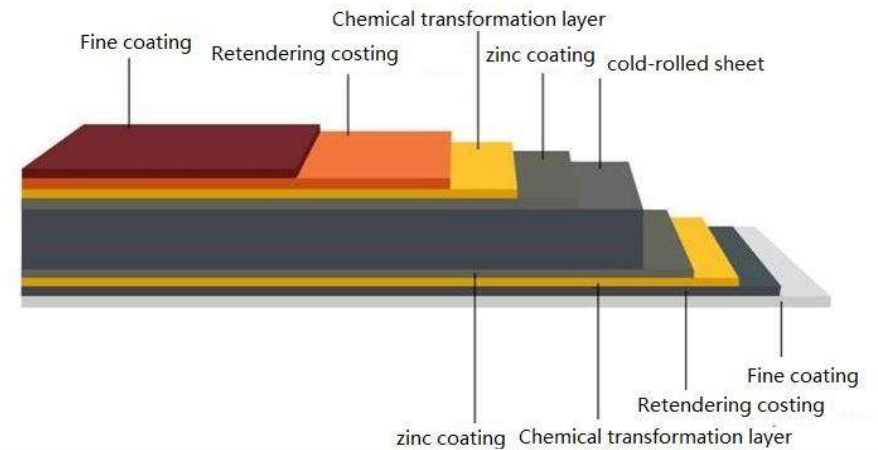
Automatic production line: Daily production capacity: 5000 square meters.



Metal Panel Surface

Paint plays a vital role in painting products

Coating	Performance	Resistance to salt fog
PE	Good adhesion, rich in color, good formability and outdoor durability, medium chemical resistance performance and low cost.	≥500
SMP	good coating hardness, good wear resistance and heat resistance, exterior durability, resistance to pulverization and gloss retention, medium at flexibility cost	≥500
HDP	excellent in anti-ultraviolet and color retention, excellent outdoor durability and resistance to pulverization, good adhesion, rich in color, outstanding cost performance.	≥1000
PVDF	Excellent in anti-ultraviolet and color retention, excellent outdoor durability and resistance to pulverization, excellent solvent resistance, good formability and good resistance to dirty	≥1000



Protective film
Topcoat PE / HDP / SMP / HPC / PVDF 13-20μm
Epoxy primer or polyester resin primer 5μm
Surface treatment film
Zinc layer: galvanized / 5% aluminum zinc (Z08-Z35), 55% aluminum zinc (AZ80-AZ200)
Plate: thickness 0.2-1.2mm, mechanical properties: yield strength is 280/300/350 / 500Mpa stainless steel aluminum alloy, etc.
GI / GF / GL
Surface treatment film
Epoxy resin primer or polyester resin primer 3μm
Back paint PE / HDP / SMP / HPC / PVDF 4-20μm

Core	The performance parameters					
Rock wool panel	Density	100kg/m ³ 120kg/m ³ 130kg/m ³ 140kg/m ³ 150kg/m ³				
	Fire resistance time	1.0 hour	Weight of panel			15-17.5kg/m ²
	length	Wall panel: <=12m				
Gypsum+ rockwool panel	Fire resistance time	1.0 hour				
	core	5mm gypsum + rockwool + 5mm gypsum, 5mmgypsum + rockwool				
	weight	Single gypsum + rockwool	19-21kg/m ²	Double gypsum + rockwool	24-26kg/m ²	
	length	Wall panel: <=12m				
Aluminum honeycomb panel	core	Aluminum honeycomb				
	Combustion performance	Class A	The thickness of the aluminum foil	0.045mm	aperture	15-21mm
	length	Ceiling panel: <=3m Flexural capacity: ≥150KG/m ²				
Polyphen panel	core	polyphen				
	Combustion performance	Combustion performance: class A2, refractory time: 1 hour(50mm), 2 hours (100mm)				
	length	<=12m				



Plastic corner:
the whole plate is not standard for fire resistance, the whole plate structure will lose strength in a short time.

Steel galvanized Angle:
overall structure strength, anti-aging and fire prevention performance are superior.



The melting point of high quality ABS engineering plastics is 170 °C



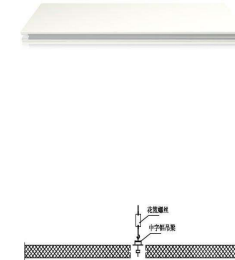
Steel melting point: 1535 °C

Description

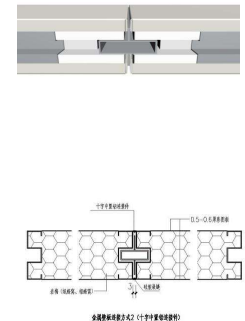
- 1, Standard plate width: 980 mm or 1180 mm
- 2, Use Aluminum connection, convenient to install
- 3, Around the 0.8 mm bow frame, higher whole plate strength.
- 4, Galvanized angle to the corner effectively guaranteed fire prevention performance of the plate (most manufacturers use the plastic corner)



Panel
Drawing details



The Installation rendering
The installation details



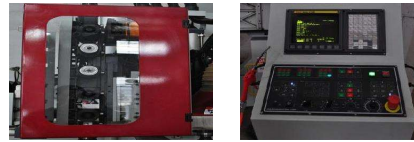
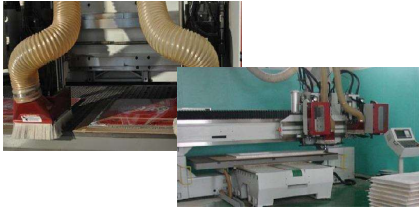
Service

- 1, We can produce non standard size of the whole board, compared to the cutting board, higher intensity, more convenient for construction.
- 2, Place the strengthen keel in the middle place according to customer requirements.
- 3, Reserve the electric force tube

HPL Panel

Youthtech can provide high-end Melamine resin wallboard, including Trespa solutions.

We have Germany CNC center, use Italy SCM machine to guarantee the precision of cutting and drilling.



Operating processing table for 3100*1600mm, also suitable for non-standard processing, maximize customer satisfaction.
Double tool head to switch freely, the equipment rotate speed is up to 18000 RPM and the horsepower is 15KW.

Processing table is 3800 × 3800, suitable for non-standard processing.

The whole machine is imported from Europe, produced in accordance with European standards, there is a safety fence in the rear cutting area and a floor in the rear roller area.

The front air table has a separate air pump, and its buoyancy is much greater than one air pump supplying air to multiple tables.

Each table can be moved freely to the left and right to match different size sheets.

The drive of the hacksaw seat adopts the cogged dense gear rack and pinion to ensure that multiple teeth are coupled.



The left side of the rear cutting area uses heavy-duty slides / rollers to reduce the resistance when manual X-Y steering.

Patented pneumatic locking saw blade, to avoid old nut sliding teeth and saw blade deformation due to excessive tightening force.

High-speed machine: saw speed 135 m / min.
Original optimization software.

HPL Panel

Youthtech can provide high-end Melamine resin wall panel.

Composition and characteristics

- 4mm melamine resin board on both sides
- Built-in aluminum alloy hollow keel
- Polyphenol or honeycomb core material
- Optional color
- Impact resistance
- Preservative
- Can cooperate with CNC
- Aluminum alloy profile connection
- L-shaped or aluminum connection
- Smooth and smooth surface
- Fully flat connection to PVC floor



Metal panel YT-50 serials

Metal surface rock wool hand-made sandwich panel



Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density 100K, ≥120K can be customized)
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	0.89KN/m ²
Bond strength	0.07MPa
Peel performance	≥ 85%—≤ 96%
Heat transfer coefficient	0.84W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface single magnesium oxide rock wool hand-made sandwich panel

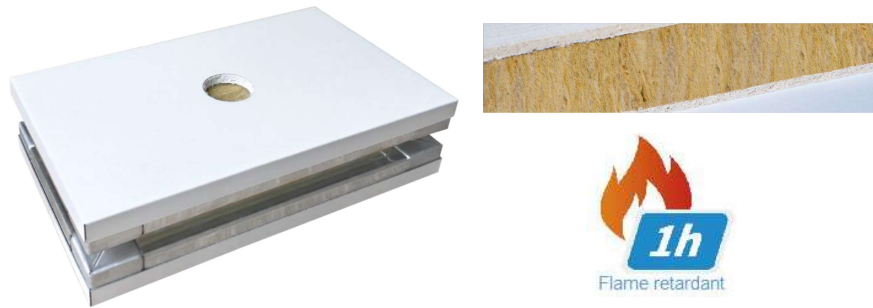


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density ≥100K) + 5mm magnesium oxide board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	0.9KN/m ²
Bond strength	0.15MPa
Peel performance	≥ 85%—≤ 98%
Heat transfer coefficient	0.73W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface double magnesium oxide rock wool hand-made sandwich panel

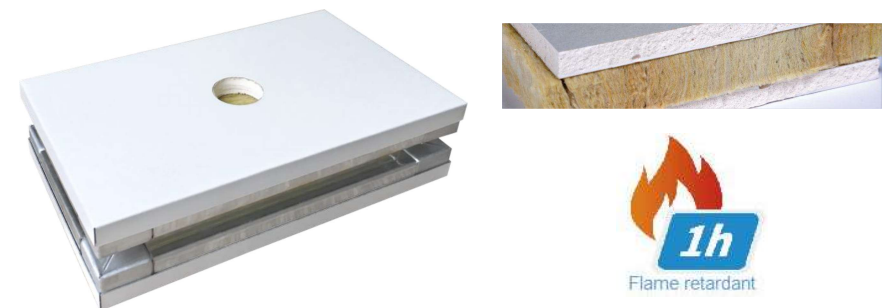


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density ≥100K) + 5mm x 2 magnesium oxide board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.1KN/m ²
Bond strength	0.08MPa
Peel performance	≥ 85%—≤ 98%
Heat transfer coefficient	0.5W/m ² ·K
Fire resistance	1h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface double gypsum rock wool handmade sandwich board

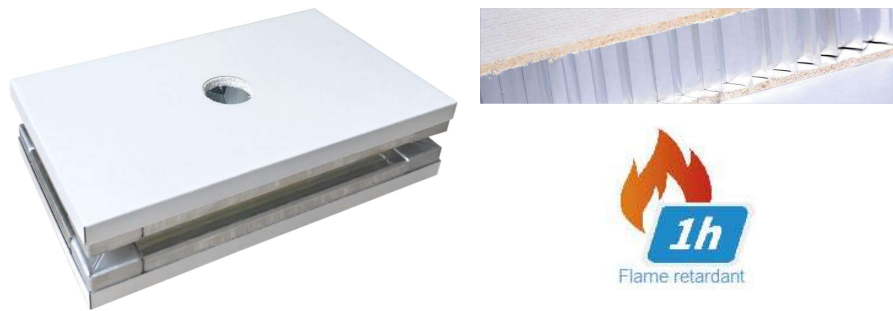


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density ≥100K) + 9.5mm x 2 gypsum board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.1KN/m ²
Bond strength	0.15MPa
Peel performance	≥ 85%—≤ 99%
Heat transfer coefficient	0.55W/m ² ·K
Fire resistance	1h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface double magnesium oxide aluminum honeycomb handmade sandwich panel



Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Al honeycomb (aperture ≤ 21mm) + 5mm x2 magnesium board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.3KN/m ²
Bond strength	0.15MPa
Peel performance	≥ 85%—≤ 94%
Heat transfer coefficient	0.92W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface double magnesium oxide paper honeycomb handmade sandwich panel

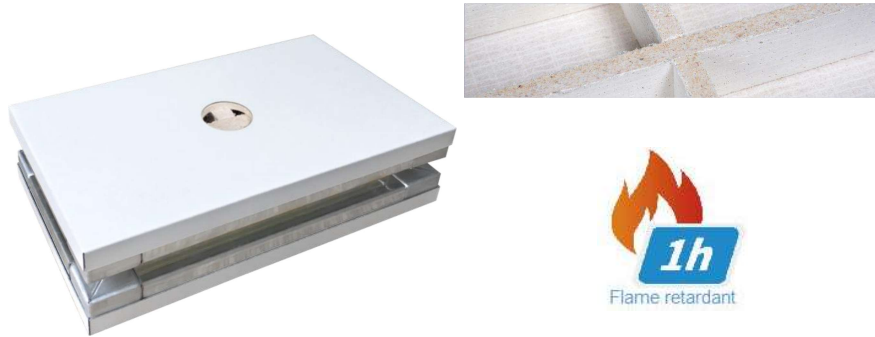


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Paper honeycomb (aperture ≤ 21mm) + 5mm x2 magnesium board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.2KN/m ²
Bond strength	0.23MPa
Peel performance	≥ 85%—≤ 95%
Heat transfer coefficient	0.89W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface hollow magnesium manual sandwich panel

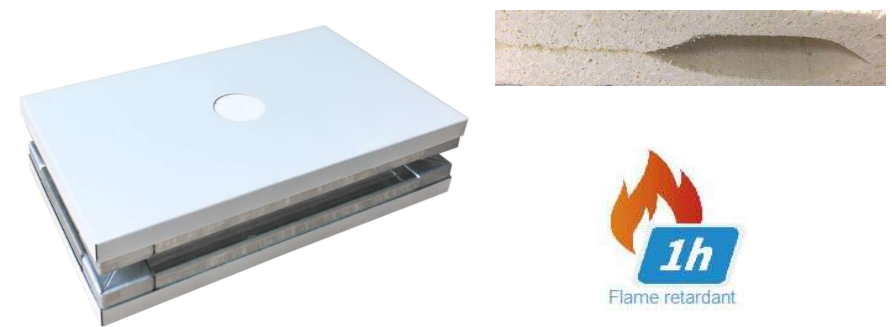


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Magnesium bar (100mm pitch one) + 5mm x2 magnesium board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.0KN/m ²
Bond strength	0.13MPa
Peel performance	≥ 85%—≤ 95%
Heat transfer coefficient	0.89W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface magnesium oxysulfide manual sandwich panel

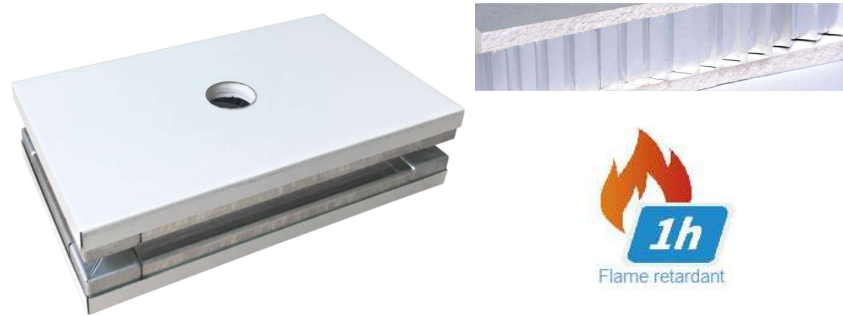


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Magnesium oxysulfide (200Kg/m ³ , > 200Kg/m ³ can be customized)
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	0.88KN/m ²
Bond strength	0.08MPa
Peel performance	≥ 85%—≤93%
Heat transfer coefficient	0.85W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-50 serials

Metal surface double-sided gypsum aluminum honeycomb manual sandwich panel

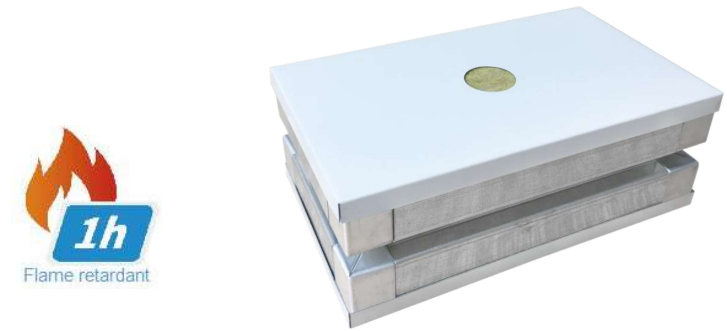


Parameters

Wall thickness	50mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Aluminum honeycomb (aperture 21mm+ 9.5mm x2 gypsum board)
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.12KN/m ²
Bond strength	0.09MPa
Peel performance	≥ 85%—≤93%
Heat transfer coefficient	0.86W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy or fast detachable grid

Metal panel YT-75 serials

Metal surface rock wool hand-made sandwich panel



Parameters

Wall thickness	75mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density 100K, ≥120K can be customized)
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	0.85KN/m ²
Bond strength	0.07MPa
Peel performance	≥ 85%—≤ 96%
Heat transfer coefficient	0.7W/m ² ·K
Fire resistance	1.0h
Connection method	Aluminum alloy grid

Metal panel YT-75 serials

Metal surface double gypsum rock wool handmade sandwich board



Parameters

Wall thickness	75mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density ≥100K) + 9.5mm x 2 gypsum board
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.2KN/m ²
Bond strength	0.16MPa
Peel performance	≥ 85%—≤ 99%
Heat transfer coefficient	0.43W/m ² ·K
Fire resistance	2.0h
Connection method	Aluminum alloy grid

Metal panel YT-100 serials

Metal surface rock wool hand-made sandwich panel



Parameters

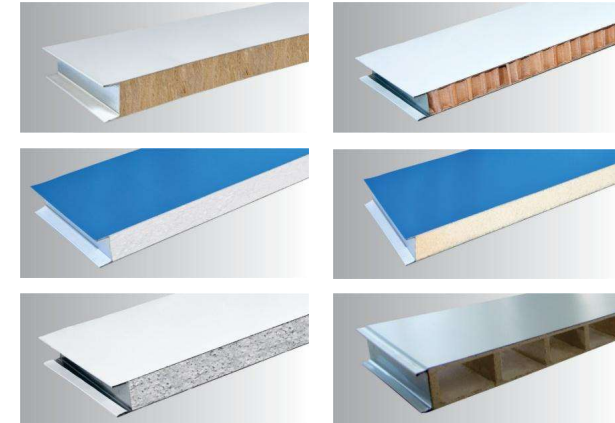
Wall thickness	100mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density 100K, ≥120K can be customized)
Galvanized frame	0.7mm, ≥1.0mm can be customized
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	0.89KN/m ²
Bond strength	0.07MPa
Peel performance	≥ 85%—≤ 96%
Heat transfer coefficient	0.53W/m ² ·K
Fire resistance	1.5h
Connection method	Aluminum alloy grid

Metal surface double gypsum rock wool handmade sandwich board



Parameters

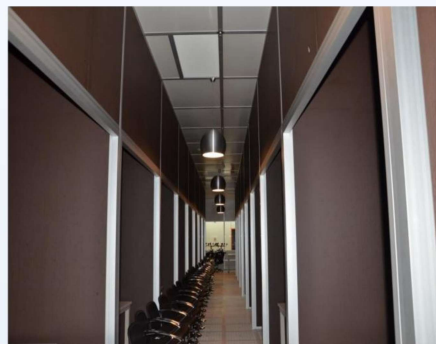
Wall thickness	100mm
Standard length	980mm, 1160mm, 1180mm, 1200mm, customized
Diagonal error	≤1mm
The maximum length	≤10000mm
Panel material	PE, PVDF (fluorocarbon), salinized plate, antistatic, conductive static, SS, HDP (high durability polyester)
Panel thickness	0.426mm, 0.476mm, 0.5mm, 0.6mm, 1.0mm
Filled core material	Rock wool (density ≥100K) + 12mm x 2 gypsum board
Galvanized frame	1.0mm
Corner pieces	1.0mm GI Angle
Protective film	0.06mm, >0.06mm can be customized
Flexural capacity	1.3KN/m ²
Bond strength	0.16MPa
Peel performance	≥ 85%—≤ 99%
Heat transfer coefficient	0.32W/m ² ·K
Fire resistance	4.0h
Connection method	Aluminum alloy grid



Parameters

Wall thickness	50mm, 75mm, 100mm, 150mm, 200mm
Standard length	950mm, 1150mm
The maximum length	≤10000mm
Panel material	PE
Panel thickness	0.426mm, 0.476mm, 0.5mm
Filled core material	Rock wool, silica rock, foam, polyurethane, paper honeycomb, hollow glass magnesium, etc.
Galvanized frame	0.7mm, ≥1.0mm can be customized
Protective film	0.06mm, >0.06mm can be customized
Connection method	Fast detachable grid
Type	H board (flat, profiled), tongue-and-groove board, corrugated sandwich board

DOOR SYSTEM

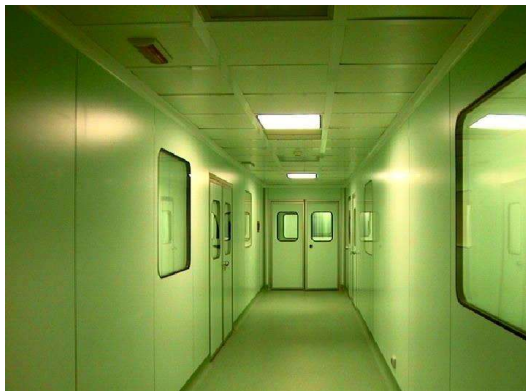


Parameters

Standard Size	900x2100/ 1000x2100/ 1500x2100 customized
Type	Single open door, double open door, unequal double door
Door frame	Flat frame, encircle frame, butt clamp frame etc.
Material	Door frame: 1.2mmSS/1.5mm SS/GI, Aluminum alloy Door leaf: 1.0mm SS/GI; Al alloy edging around Inner reinforcement plate: 1.2mm GI
Door thickness	50 mm
Filling material	Flame-retardant paper honeycomb, Rock wool, Al honeycomb
Window	Right-angle/rounded/Outer square inner circle double window, Standard size: 400x600mm, printing silk color: white or black, glass performance: 5mm tempered (fireproof optional), window built-in desiccant and filled with inert gas. Lock body: split/one-piece handle lock, elbow pressure lock, escape lock, etc. Hinge: SS304 detachable hinge
Hardware Components	Door closer: exterior / built-in type (the form can be divided into positioning and non-positioning) Interlock: electromagnetic lock (external), electric mortise lock (embedded)
Sealing strip	Door leaf glue injection self-foaming sealing strip, lifting dust strip at the bottom of the door leaf

Features

- Doors and wall panels installed completely flat
- Hygienic hinge, concealed installation, no hidden danger of dust accumulation
- Automatic push-down sealing strip, peripheral silicone rubber strip, applicable in the pharmaceutical factory
- Sealed keel at the bottom of the door, structural integrity, high strength (patent protection)
- CNC equipment hole processing, precise and beautiful
- Sanitary door stop
- Door panel (aluminum magnesium manganese color coating plate, stainless steel plate, titanium zinc alloy plate, fiber resin panel)
- Door lock (Italy NOVA, Germany NOKA)
- Windows (arc windows, square windows)



Material	Galvanized steel plate / stainless steel/colored steel plate	Surface treatment of galvanized sheet , remov oilpicking and then spray
Filling	Paper honeycomb, rockwool, aluminum honeycomb	Flame retardant (optional)
Observation window	tempered double layer hollow glass,thickness:5mm	0.8 stainless steel inside
Surface treatment	electrostatic plastic spray to the surface of Galvanized plate	Never change color, anti electrostatic spray
Wrapping edge	Stainless steel/aluminum	The edges are rounded polished to prevent hand injuries.
Sliding door handle	Thickness of stainless steel:2mm	The edges are rounded polished to prevent hand injuries.
Sealing strip/Buffer strip	Silicone sealing strip	

Rolling door



Technical Parameters

- Door material: 2.0mm cold-rolled sheet steel, folding and high-quality paint process.
4.0mm industrial aluminum alloy or stainless steel upright post.
- Professional brake motor, power 0.55-1.5KW, power supply 220V / 380V, braking voltage 220V
- Control system: microcomputer frequency conversion control electric box (Mitsubishi CPU).
- Control voltage: safe low voltage 24VDC.
- Opening speed: 1.5-0.8m / s (variable frequency speed regulation)
- Curtain material: high density PVC coating hot melting fabric, 0.8mm-1.0mm
- Curtain tensile strength: 175KN / m
- Fire rating: German standard MZD / NBL fire retardant.
- Operating temperature: -10 T + 70 *C/super cold-resistant region -40 T.
- Transparent windows: PVC transparent soft board 1.00mm, increasing security and management convenience, matched with overall horizontal transparent window.
- Wind loading rating: 25m/s with aluminium alloy windbreak strips.
- Sealing performance: the bottom is equipped with flexible PVC base cloth, fit closely to uneven ground.
- Door-case slide is equipped with sealing brush, reducing noise and dust-proof.
- Infrared photoelectric protection, warning lights, anti-collision column, power-cut manual rocker.

Cleanroom window

Features

- Special sealant seal
- Double toughened glass
- Built-in desiccant
- Made in a clean environment
- Custom window liner
- Window arc CNC cutting, high precision, beautiful
- Peripheral color glaze printing with transitional edges







THANK YOU FOR CHOOSING YOUTHTECH

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