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WILLSON CLEANROOM EQUIPMENT CO., LTD.

www.willsoncleanroom.com

Located in Suzhou, a city in the west of Shanghai, Willson Cleanroom Equipment Co., Ltd. is a cleanroom equipment manufacturer, OEM and supplier in China.

Equipped with advanced production equipment, such as HSG laser cutting machine, Estun bending robot, welding machine, automatic PU glue applicator and a painting line, Willson can offer various cleanroom doors, windows, pass boxes, air showers, dispensing booths, fan filter units and customized stainless steel furniture like stainless steel sink, cross-over bench, cabinets, etc.

Willson initially was operated as an exclusive OEM service provider for a state-owned purification group in 1998. Until today we still provide OEM service for this group. In addition, with good quality and services, Willson won its reputation in domestic cleanroom field and our products have more and more presences on market.

As a manufacturer and OEM of cleanroom equipment, Willson has established good business relationship with many reputed cleanroom engineering companies, construction companies, trading companies and end-users.

In addition to domestic market, Willson is ready to actively explore overseas market, With the "Less is more" as our business philosophy and same quality products and services, and we firmly believe we can have a good cooperation and build long-term business relations with our overseas customers. Let's work together to make it happen!



CLEANROOM DOORS & WINDOWS

Cleanroom door is characterized by air tightness, flush and smooth surface of door leaf and door frame. Willson can offer several cleanroom doors and windows to fit for different on-site conditions of cleanrooms and customer requirements, including the doors and windows for the existing masonry walls of renovation project.

For cleanroom doors, there are three types according to the mode of motion of the door leaf.



Hinged door, including

- PCGI steel door
- stainless steel door
- HPL door
- Fire exit door



Sliding door



Fast speed rolling door.



PCGI STEEL DOOR



STAINLESS STEEL DOOR



SLIDING DOOR



FIRE EXIT DOOR



HPL DOOR



FAST SPEED ROLLING DOOR

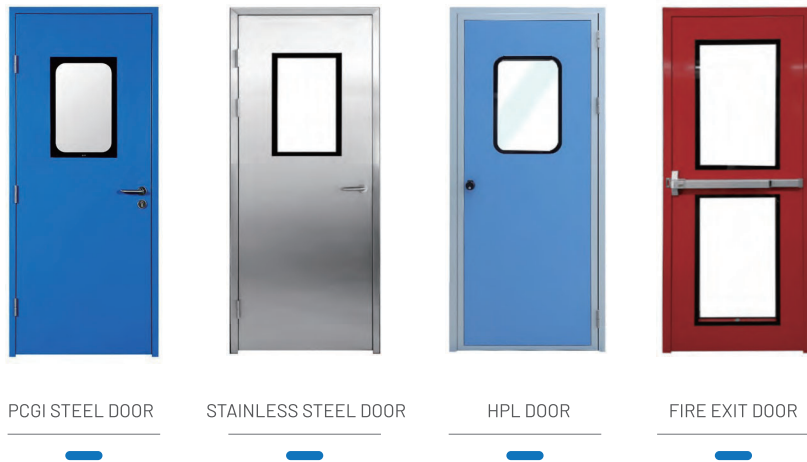
HIGHED DOORS IN CLEANROOM

SPECIFICATION AND COMPARISON OF
PCGI STEEL DOOR/STAINLESS STEEL DOOR/HPL DOOR/FIRE EXIT DOOR



DOOR SPECIFICATION

HINGED DOOR



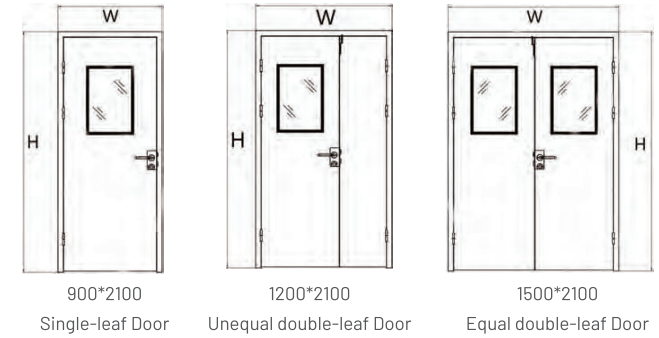
PCGI STEEL DOOR

STAINLESS STEEL DOOR

HPL DOOR

FIRE EXIT DOOR

THREE STANDARD SIZES (W*H) mm



STANDARD CONFIGURATION

- Double-glazed view panel (right-angled corner by default)
- Fire-retardant paper honeycomb as infill of door leaf
- Handle lock with keys (by default), push bar or panic bar for fire exit door
- Stainless steel hinges
- Automatic drop-down bottom seal

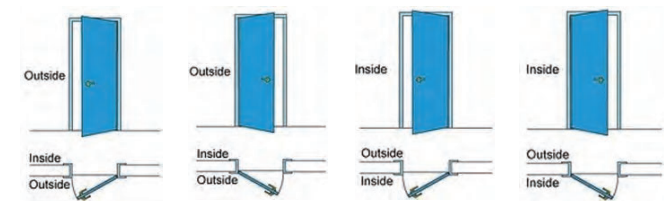
OPTIONAL CONFIGURATION

- Interlocking device
- Door closer
- Stainless steel kick plate

CUSTOMIZATION

- Door width
- Door height
- Door frame thickness (50-200mm)
- View panel size
- Door color (except stainless steel door)
- Door lock (except fire exit door which only push bar is allowed)



DETERMINATION OF OPENING DIRECTION










A: Left Opening B: Right Opening C: Left Opening D: Right Opening



Note: In order to prevent from misunderstanding, please send us the plan layout of your doors.


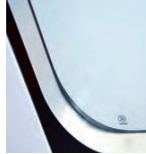


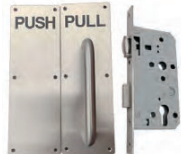

TECHNICAL SPECIFICATION

DOOR NAME	PCGI STEEL CLEANROOM DOOR			
	Model	WPSD-900	WPSD-1200	WPSD-1500
	Door Size (W*H)	900*2100mm	1200*2100mm	1500*2100mm
		Note: The above sizes include door frame (50mm thick by default) which can be customized from 50mm to 200mm)		
	Features	<ul style="list-style-type: none"> Air tightness, good insulation Clean, flush and smooth finish, GMP-compliant The most cost-effective and widely-used door Integration with different walls, sandwich panel wall, brick wall, dry wall of different thickness 		
	Application	Suitable for all cleanrooms in biopharmaceutical, food, hospital, lab, microelectronic industries		
	MOC	100% powder-coated galvanized iron steel		
	Door Leaf	1.0mm thick PCGI steel sheet as skin with paper honeycomb as infill		
	Door Frame	<ul style="list-style-type: none"> 1.5mm thick PCGI steel sheet 50mm thick frame, custom-made thickness from 50 to 200mm 		
	View Panel	<ul style="list-style-type: none"> Double-glazed, 2*5mm tempered glasses with stainless steel frame, filled with desiccant inside; right-angled corner by default. Standard size: W:400* H:600mm 		
STANDARD CONFIGURATION	<ul style="list-style-type: none"> Double-glazed view panel (right-angled corner by default) Fire-retardant paper or aluminum honeycomb as infill of door leaf Handle lock with keys (by default) Stainless steel hinges Automatic drop-down bottom seal 			
OPTIONAL CONFIGURATION	<ul style="list-style-type: none"> Interlocking device for 2-door/3-door/4-door interlocking Door closer (hydraulic or electric) Stainless steel kick plate 			



WHAT CAN BE CUSTOMIZED?			
DOOR SIZE	<ul style="list-style-type: none"> Width Height Door frame thickness from 50mm to 200mm 		
VIEW PANEL SIZE AND CORNER TYPE	<ul style="list-style-type: none"> Width Height Corner type as showed below (the left one by default) 		
			
	Externally right-angled & internally right-angled (by default)	Externally right-angled & internally round-angled	Externally round-angled & internally round
DOOR LOCK			
	S.S. Handel lock with keys (by default)	S.S. Push & Pull plate and roller bolt latch	Press-open knob lock
DOOR COLOR			








DOOR NAME		STAINLESS STEEL CLEANROOM DOOR		
	Model	WSSD-900	WSSD-1200	WSSD-1500
	Door Size (W*H)	900*2100mm	1200*2100mm	1500*2100mm
		Note: The above sizes include door frame (50mm thick by default) which can be customized from 50mm to 200mm		
	Features	<ul style="list-style-type: none"> Air tightness, good insulation Clean, flush and smooth finish, GMP-compliant Corrosion-resistance, easy to clean Integration with different walls, sandwich panel wall, brick wall, dry wall, etc. 		
	Application	Suitable for all kinds of cleanrooms, especially for the cleanrooms which require sterile or corrosion-resistance environments.		
	MOC	100% Stainless Steel 304		
	Door Leaf	0.8mm thick stainless steel sheet as skin with paper honeycomb as infill		
	Door Frame	<ul style="list-style-type: none"> 1.2mm thick stainless steel sheet 50mm thick frame, custom-made thickness from 50 to 200mm 		
	View Panel	<ul style="list-style-type: none"> Double-glazed, 2*5mm tempered glasses with stainless steel frame, filled with desiccant inside; right-angled corner by default. Standard size: 400*600mm 		
STANDARD CONFIGURATION	<ul style="list-style-type: none"> Double-glazed view panel (right-angled corner by default) Fire-retardant paper or aluminum honeycomb as infill of door leaf Handle lock with keys (by default) Stainless steel hinges Automatic drop-down bottom seal 			
OPTIONAL CONFIGURATION	<ul style="list-style-type: none"> Interlocking device Door closer 			



WHAT CAN BE CUSTOMIZED?			
DOOR SIZE	<ul style="list-style-type: none"> Width Height Door frame thickness from 50mm to 200mm 		
VIEW PANEL SIZE AND CORNER TYPE	<ul style="list-style-type: none"> Width Height Corner type as showed below (the left one by default) 		
			
	Externally right-angled & internally right-angled (by default)	Externally right-angled & internally round-angled	Externally round-angled & internally round
DOOR LOCK			
	S.S. Handle lock with keys (by default)	S.S. Push & Pull plate and roller bolt latch	Press-open knob lock



DOOR NAME	CLEANROOM HPL DOOR			
 	Model	WHPL-900	WHPL-1200	WHPL-1500
	Door Size (W*H)	900*2100mm	1200*2100mm	1500*2100mm
	Note: The above sizes include door frame (50mm thick by default)			
	Features	<ul style="list-style-type: none"> Air tightness, good insulation Hygiene and anti-bacterial Clean, flush and smooth finish, GMP-compliant Strong, Hard and scratch-free Fire and corrosion-resistance, impact-resistance Various color available 		
	Application	Suitable for all kinds of cleanrooms, especially for the cleanroom IN hospital, lab which requires strict sterile environment.		
	MOC	High pressure laminate panel and high-quality aluminum profile		
	Door Leaf	5mm thick HPL Panel as skin combining with 1.2mm GI sheet as strengthening plate, and paper honeycomb as infill		
	Door Frame	50mm quality aluminum profile		
	View Panel	<ul style="list-style-type: none"> Double-glazed, 2*5mm tempered glasses with stainless steel frame, filled with desiccant inside; right-angled corner by default. Standard size: 400*600mm 		
	STANDARD CONFIGURATION	<ul style="list-style-type: none"> Double-glazed view panel (right-angled corner by default) Fire-retardant paper or aluminum honeycomb as infill of door leaf Press-open knob lock (by default) Stainless steel hinges Automatic drop-down bottom seal 		
OPTIONAL CONFIGURATION	<ul style="list-style-type: none"> Interlocking device Door closer 			


WHAT CAN BE CUSTOMIZED?	
DOOR SIZE	<ul style="list-style-type: none"> Width Height
VIEW PANEL SIZE AND CORNER TYPE	<ul style="list-style-type: none"> Width Height Corner type as showed below (the left one by default)
	  
	<p>Externally right-angled & internally right-angled (by default)</p> <p>Externally right-angled & internally round-angled</p> <p>Externally round-angled & internally round</p>
DOOR LOCK	 
	<p>S.S Handel lock with keys</p> <p>Press-open Knob Lock (by default)</p>
DOOR SIZE	<ul style="list-style-type: none"> Width Height



DOOR NAME	CLEANROOM FIRE EXIT DOOR			
	Model	WFED-900	WFED-1200	WFED-1500
	Door Size (W*H)	900*2100mm	1200*2100mm	1500*2100mm
		Note: The above sizes include door frame (50mm thick by default) which can be customized from 50mm to 200mm)		
	Features	<ul style="list-style-type: none"> Air tightness, good insulation for fire and smoke Clean, flush and smooth finish, GMP-compliant Integration with different walls, sandwich panel wall, brick wall, dry wall, etc. Big view panel for easy viewing in case of emergency The panic bar is equipped for fast evacuation 		
	Application	As an evacuation exit suitable for all cleanrooms in biopharmaceutical, food, hospital, lab, microelectronic industries		
	MOC	100% Powder-coated galvanized Iron steel		
	Door Leaf	1.0mm thick PCGI steel sheet as skin with paper honeycomb as infill		
Door Frame	<ul style="list-style-type: none"> 1.2mm thick PCGI steel sheet 50mm thick frame, custom-made thickness from 50 to 200mm 			
	View Panel	<ul style="list-style-type: none"> Double-glazed, Tempered glass with stainless steel frame, filled with desiccant inside; Right-angled corner by default. One big or two small panels Standard size: <ul style="list-style-type: none"> Single-glass: 400*600mm (Same as PCGI Steel Door) Half-glass: 2*(580*645)mm Full-glass: 580*1810mm 		
STANDARD CONFIGURATION	<ul style="list-style-type: none"> Double-glazed view panel (right-angled corner by default) Fire-retardant paper or aluminum honeycomb as infill of door leaf Panic bars Stainless steel hinges Automatic drop-down bottom seal 			


WHAT CAN BE CUSTOMIZED?			
DOOR SIZE	<ul style="list-style-type: none"> Width Height Door frame thickness from 50mm to 200mm 		
VIEW PANEL TYPE & SIZE of Single-Leaf Fire Exit Door (W*H)	<ul style="list-style-type: none"> Width Height 		
	VIEW PANEL SIZE 400*600mm	VIEW PANEL SIZE 580*645mm	VIEW PANEL SIZE 580*1810mm
	1 small view panel	2 view panels	1 big view panel
DOOR LOCK	Touch bar Type (1 & 2-lock point)		
	Cross bar type (1 & 2-lock point)		

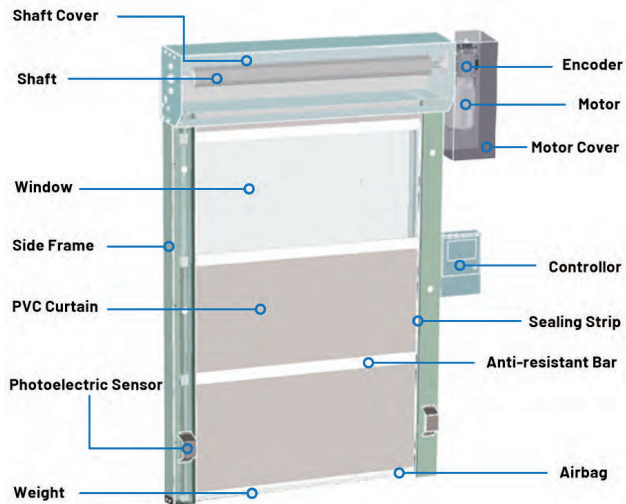






DOOR NAME	CLEANROOM AIRTIGHT SLIDING DOOR	
	Model	WSLD-900/1000/1100/1200/1300/1400/1500
	Wall Opening Sizes (W*H)	900//1000/1100/1200/1300/1400/1500*2100mm
	Features	<ul style="list-style-type: none"> • Applicable to hospital, lab, cleanroom industries • Air tightness, fire and sound isolation • Integration with different walls, sandwich panel wall, brick wall, dry wall, etc. • Various door opening control types
	Top Cover	Aluminum or stainless steel
	Door Leaf	1.5mm thick PCGI steel sheet as skin with paper honeycomb as infill with high-strength aluminum or stainless steel enclosed.
	Door Leaf Width	1070mm—1570mm
	Net Width	2350mm—3350mm
	Opening Speed	250mm—550mm/s (adjustable)
	Closing Speed	250mm—450mm/s (adjustable)
	Opening Duration	1—10s (adjustable)
	Closing Force	250mm—550mm/s (adjustable)
	Opening Speed	>70 N
	Manually Pushing Force	<100 N
	Power Consumption	<150 W
	Power Supply	1-phase, 220V +10%, 50Hz
	View Panel	Size: W*H(550*450)mm, double-glazed, tempered glass with stainless steel frame, filled with desiccant inside; Right-angled corner by default.
	STANDARD CONFIGURATION	<ul style="list-style-type: none"> • PCGI door leaf • Guiding rail • Aluminum cover for guiding rail • Motor of international brand • Fire-retardant paper or aluminum honeycomb as infill of door leaf • Stainless steel bump plate in the middle of door leaf • Foot sensor by default, door can be opened by putting foot into the sensor box.

WHAT CAN BE CUSTOMIZED?				
DOOR SIZE	<ul style="list-style-type: none"> • Width • Height 			
DOOR MOC	<ul style="list-style-type: none"> • Powder-coated Galvanized Iron Steel (by default) • Stainless Steel 			
VIEW PANEL	<ul style="list-style-type: none"> • Width • Length • Corner type as showed below (the left one by default) 			
	  			
	<p>Externally right-angled & internally right-angled (by default)</p> <p>Externally right-angled & internally round-angled</p> <p>Externally round-angled & internally round</p>			
OPENING MODE	<ul style="list-style-type: none"> • Manual opening • Automatic opening 			
DOOR OPENING CONTROL METHODS				
				




DOOR NAME		FAST SPEED ROLLING DOOR	
	Product Code	WFSD	
	Max. Size	W:4500mm * H4500mm	
	Feature	<ul style="list-style-type: none"> • Fast speed opening and closing • Good sealing, safe and stable user experience • Clean and hygiene • Keep particles, dust, insect, airflow outside of cleanroom • Fit for heavy traffic and big materials entering or exiting 	
	Opening Speed	0.8 m/s (adjustable)	
	Closing Speed	0.5 m/s (adjustable)	
	Power Supply	1-phase 220V, 50hz, or 3-phase 380V	
	Drive Mode	1-phase, 220V variable frequency drive (VFD), 110V can be customized	
	Shaft	Imported roller of 114mm diameter	
	Motor	Imported Motor: Lenze (Germany Brand)	
	PVC Curtain	PVC material, 1.2mm thick high-density PVC imported from Japan	
PVC Curtain Color	Red, Yellow, Blue, Orange or full transparent		



	<p>Controller</p> <p>This dedicated VFD for fast speed roller door is updated from formal universal VFD, remaining the main functions and stability meanwhile adding core program designed for fast speed door by using absolute value encoder so as to achieve accurate position of the door.</p>
	<p>Safety</p> <p>The photoelectric sensor will enable PVC curtain to stop when people or materials contact the PVC curtain, it works with air bag to ensure safely and smoothly going through the door.</p>
	<p>Sealing Performance</p> <p>The elastic rubber is mounted at the bottom of PVC curtain, ensuring tight contact with uneven floor. Filled with buffer material, the rubber's endurance can be improved. The abrasion-resistance rubber strips are mounted at both sides of door frame, reducing noise and increasing sealing effects.</p>
	<p>Case</p> <p>Powder-coated Steel Or Stainless Steel</p>

WHAT CAN BE CUSTOMIZED?

DOOR SIZE	<ul style="list-style-type: none"> • Width • Height
PVC COLOR	 <p>1: Blue 2: Full Transparent 3: Orange 4: Yellow</p>

DOOR OPENING CONTROL METHODS

① Radar	② Earth Induction	③ Switch Button
④ Pull Switch	⑤ Remote Control	⑥ Infrared Induction



CLEANROOM WINDOWS

Considering there are two types of sandwich panels as cleanroom wall as showed below, there are also two types of cleanroom window connections which can match the above two panels.

Panel-to-Panel Connection Method

Machine-made Sandwich Panel	Hand-made Sandwich Panel

1. On-site assembled aluminum frame for machine-made panel wall.

One side of window frame is prefabricated and fixed in our factory, another side of frame (comprising 4-piece aluminum) should be assembled and mounted at one side after the ready frame is pushed inside the window opening from another side.



2. No-frame window for hand-made panel wall.

Without aluminum frame above, only simple window. Same as panel-to-panel connection, the window is connected to hand-made sandwich wall panel with aluminum connector.

