Hermetic Sliding Door

Hermetic door / ICU hermetic door / Radiation protection door (single open only)



Hermetic door:

A hermetic door is a sliding door that combines airtightness, sound isolation, thermal insulation, anti-pressure, anti-dust and fire prevention.

It is typically used where airtightness standards are high, such as hospitals, food factories and industrial factories.

Sealing properties

- Airtight
- Sound isolation
- Thermal insulation
- Anti-pressure
- Anti-dust
- Fire prevention

Used in

Hospital | Food factory | Industrial factory

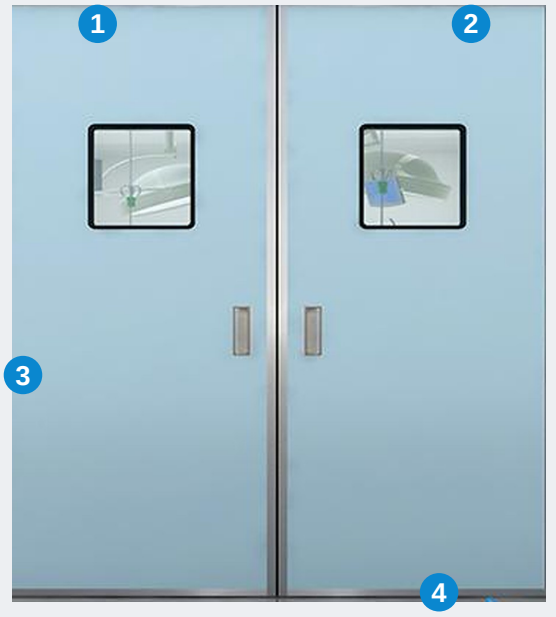
Technical data:

Door leaf mode	Single open / double open (radiation protection door: single open only)
Door size	Customized
Standard door thickness	40 mm
Outer door plank	Plate painting (color optional) / stainless steel / tempered glass + frame door
Door inner filling	Aluminium honeycomb / paper honeycomb / fire proof perlite
Controller	LED digital controller (HH180 controller), 18 functions adjustable, AC100-240V
Motor	100W brushless motor (HH180 motor), max capacity 200 kg, 2300 RPM/min
Track	Hermetic door special track with sink groove: the door sinks into the track by 7 mm
Sealing	Sub-frame and sealing strip on every door

4 guarantees to ensure your secure choice:

- **Specialist technical support**
- **Quality assured**
- **Customized support**
- **Optimized door plank**

Four sealing features





Sub-frame

The frame is assembled with a sub-frame on the left and right, and also above. If you need radiation protection, the sub-frame is also assembled with a lead plate.



Sink groove track

The track is designed with a sink groove that lets the door sink into it by 7 mm. When the door closes within about 3 mm of the wall, it sinks to achieve the seal.



Airtight strips all round

The frame has a sub-frame with an airtight strip above, and the door is also fitted with an airtight strip all around, so it is completely sealed when closed.



Floor sealing strip

A sealing strip runs along the bottom of the door. As the door sinks when closing, the strip presses tightly against the floor for a completely airtight seal.

Key sealing figures

7 mm

Depth the door sinks into the track sink groove

3 mm

Gap to the wall at which the door sinks to achieve the seal

Sealing layers (left view)

Order of layers from the wall to the door



1 Wall
2 Frame
3 Sub-frame
4 Sealing strip
5 Door

Door plank structure

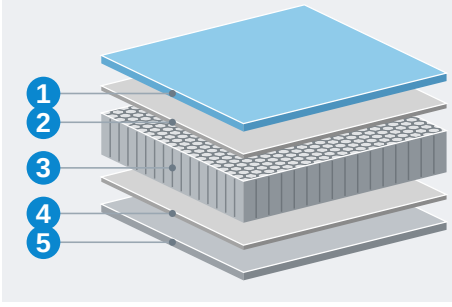
Hermetic door plank options

1
Thickened whole honeycomb

2
No deformation under heavy pressure

3
Door size can be customized

Normal hermetic door plank



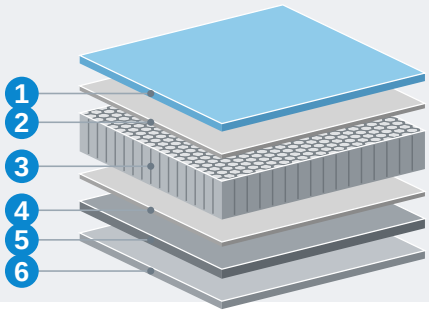
1. Outer door plank
2. Epoxy honeycomb adhesive
3. Aluminium honeycomb
4. Epoxy honeycomb adhesive
5. Outer door plank

Door thickness
40 mm standard

Inner filling
Aluminium honeycomb / paper honeycomb optional

Note
Please state if you need aluminium honeycomb

Radiation protection door plank (single open only)



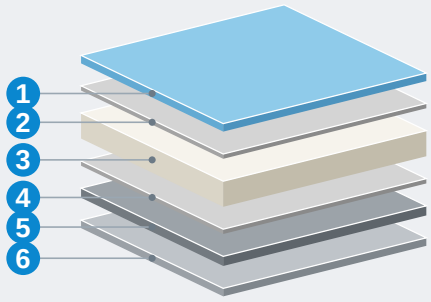
1. Outer door plank
2. Epoxy honeycomb adhesive
3. Aluminium honeycomb
4. Epoxy honeycomb adhesive
5. Radiation protection door plank
6. Outer door plank

Aluminium plank
1-3 mm PA / 4-6 mm PA optional

Normal radiation protection
1~3 mm PA optional

Heavy radiation protection
3~6 mm PA optional

Fire-proof and radiation-proof plank



1. Outer door plank
2. Epoxy honeycomb adhesive
3. Fire proof perlite
4. Epoxy honeycomb adhesive
5. Radiation protection door plank
6. Outer door plank

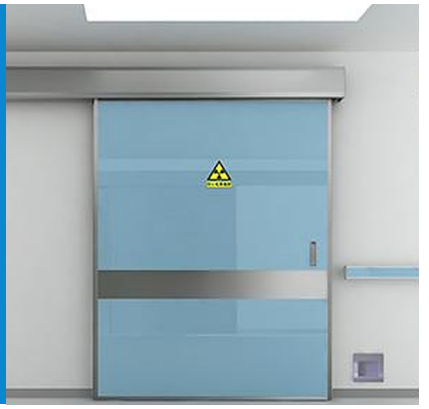
Fire proof perlite
Thickness optional



▶ Paper honeycomb core

An optional paper honeycomb core can replace the aluminium honeycomb inside the door plank. Please state which one you need when ordering.

Opening mode



▶ **Single open**



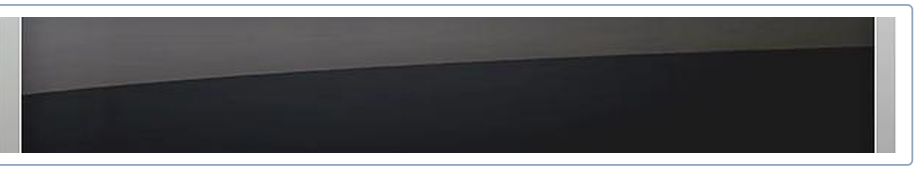
▶ **Double open**

Door size customized | radiation protection door: single open only

Outer door plank material

Tempered glass + frame door

Used for the ICU ward door



Stainless steel

Brushed finish

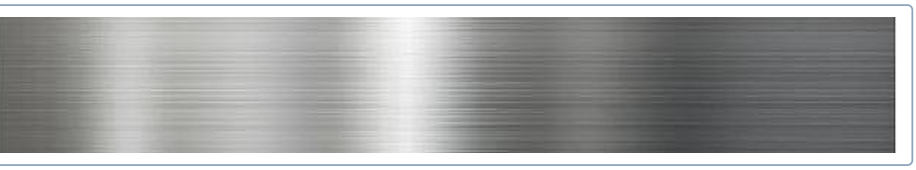


Plate painting

Various colors optional



Observation window



▶ Glass material choice

A normal door is fitted with ordinary double-layer tempered glass. A radiation-proof door is fitted with double-layer tempered glass with lead in the middle.

▶ Normal radiation-proof door

Lead plank thickness	Related lead glass thickness
1 mm	5 mm
2 mm	10 mm
3 mm	15 mm

Every extra 1 mm of lead plank adds 5 mm of lead glass.

▶ Heavy radiation-proof door

A heavy radiation-proof door cannot be fitted with an observation window.

▶ Glass dimension

200 x 300 x 10 mm or 400 x 300 x 10 mm (optional)

Fittings & accessories

Anti-collision belt, handles, sensors and switches

Anti-collision belt two materials optional



Mirror stainless steel



Matte drawing stainless steel

Handle different handles optional



Built-in door handle



U type stainless steel handle

Sensors



Hand sensor



Safety beam sensor



Foot sensor



Photocell



Ceiling mounted sensor

Switches and access



Switch for special room



Disabled switch



Metal access keypad

Need more?

The full range of compatible accessories is listed in the GeWalt catalogue, Accessories Series.

Hermetic automatic door operator

18 **LED digital controller**
functions adjustable

AC100-240V



LED digital controller (HH180 controller)

100 W
Brushless motor (HH180 motor)

200 kg
Max capacity

2300 RPM/min
Speed

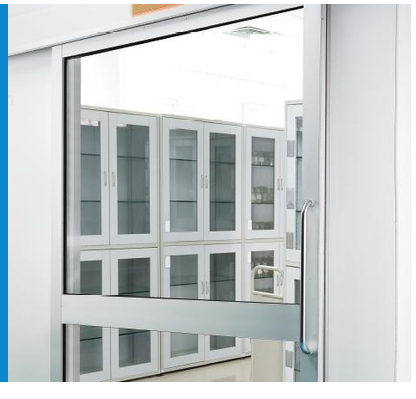


100W brushless motor (HH180 motor)

Technical data:

Controller	LED digital controller (HH180 controller)
Motor	100W brushless motor (HH180 motor)
Track	Hermetic door special track
Hardware	Hermetic door special hardware
Special needs	Please contact us

ICU door



Frame	Aluminium frame with spray plastic, or stainless steel with border, optional
Glass	Tempered glass / hollow glass
Anti-collision	Mirror stainless steel and matte drawing stainless steel optional
Door size	Customized

Selection table

Choose the door type that fits your project

Door type	Hermetic door	Radiation protection door	Fire-proof door	Ordinary hermetic door	ICU door
Outer door plank	Plate painting (color optional)				Tempered glass + frame door
Radiation protection lead plank	Optional	Normal: 1~3 mm Heavy: 4~6 mm	Optional	—	—
Door inner filling	Aluminium honeycomb / paper honeycomb optional Fire proof perlite	Aluminium honeycomb / paper honeycomb optional	Fire proof perlite	Aluminium honeycomb / paper honeycomb optional	Tempered glass / hollow glass
Anti-collision belt	Mirror stainless steel / matte drawing stainless steel				
Door size	Customized				
Observation window	Radiation-proof glass + hollow glass / hollow glass	Radiation-proof glass (door thickness optional according to the lead thickness) + hollow glass A heavy radiation-proof door cannot be fitted with an observation window.	—	Hollow glass	—
Track with sink groove	Yes	—	—	—	—
Handle	Built-in door handle / U type stainless steel handle				
Sub-frame	Yes	Yes (sub-frame with lead)	Yes	Yes	Yes
Sealing strip	Yes				
Operator					
Controller	LED digital controller (HH180 controller). For special requirements, please contact us.				
Motor	100W brushless motor (HH180 motor). For special requirements, please contact us.				
Track	Hermetic door special track				
Hardware	Hermetic door special hardware				
Opening mode	Single open / double open	Single open	Single open / double open	Single open / double open	Single open / double open

All door sizes are customized. For special requirements, please contact us.

Specifications and appearance are subject to change without prior notice. Illustrations are for reference only.