





Clean Room Door Sets | Personnel/Product Decontamination Showers | Personnel/Product Air Showers | Viewing Panels | Change Room Equipment  
Trolley & Transfer Hatches | Access panels | Mechanical/Electrical Utility Stations | Transfer Ports | Wall Protection Systems | Emergency Escape Panels

Welcome to PBSC  
Setting new standards in industry hygiene



PBSC is the accepted benchmark  
by which others are measured...

PBSC was established in 1987, as a high quality supplier of architectural components for clean room environments.

The search for innovative design, an eye for detail and advanced manufacturing techniques has seen PBSC gain a deserved reputation today as the premier supplier of what are arguably the best components in the world for clean controlled environments.

### Cleanroom Product Range

- Stainless Steel Doors
- Glass Doors
- Phenolic Resin Doors
- Vision Panels
- Transfer Hatches
- Trolley Hatches
- Clean Room Furniture
- Emergency Escape Panels
- Decontamination Showers
- Change Room Equipment



# PBSC Stainless Steel Doors



## Smooth & flush engineering

Precision engineered in stainless steel or steel powder -coated, **PBSC** door systems are purpose built for clean room environments with clean surfaces that incorporate smooth edges and a flush finish.

Additionally, this unique patented door system has a seamless wrap around frame and flush vision panel.



## Applications

**PBSC** stainless steel door sets have been specifically developed with the clean room environment in mind, and have stood the test of time.

Evidence of the systems durability is proven by the aesthetics and functionality remaining unchanged in many installations undertaken 15 years ago.

The classic stainless steel door set is used widely in the pharmaceutical and bio-technological industries.

Unique closer system



Clean room hinge  
Polished stainless  
casting

High grade  
Smooth powder  
coat finish

True flush  
glazing

## Key Features

- Flush glazed vision panels
- Stainless steel or powder coated door leaf with wrap-around frame
- Unique PBSC stainless steel cast hinge to allow maximum clear opening
- Custom frame width with no rebate on frame
- Made to suit specific wall thickness
- PBSC concealed clean room door closer
- No visible fixings



Stainless steel  
Premium satin finish

# PBSC Frameless Glass Doors

## Transparent, functional & open space atmosphere

**PBSC** glass door sets incorporate the proven **PBSC** stainless steel or powder-coated wrap-around doorframe with its clean design. The combination of a toughened glass door leaf with the clean lines of the stainless steel frame will undoubtedly give a showpiece appearance to any facility whilst providing excellent functionality.

The **PBSC** glass leaf system comprises of a frameless glass leaf which doesn't allow contamination to accumulate and is easy to clean.

The 'open space' atmosphere created by the large glass area makes **PBSC** frameless glass doors a favourite with operatives working within the confines of a clean room.



## Applications

The **PBSC** glass door is a popular choice for many clean room applications, in particular, hygienic or controlled environments. The glass door sets are widely used within facilities with frequent traffic, possessing high durability and excellent scratch resistance. They are often found installed in applications with controlled access and pressure maintenance needs.





Frameless glass doors designed to meet your exact requirements



## Key Features

- Frameless toughened glass door leaf (10mm thick)
- Full stainless steel or powder coated wrap-around frame
- Unique PBSC stainless steel cast hinge to allow maximum clear opening
- Custom frame width with no rebate on frame
- Made to suit specific wall thickness
- PBSC concealed clean room door closer
- No visible fixings

280 (RH)  
WALL  
THICKNESS

80

72

86

# PBSC Phenolic Resin Doors



## Nothing better than a solid door

The **PBSC** viewing panel provides a flush double glazed unit with polished stainless steel architraves or a lower cost alternative with powder coated steel architraves. Phenolic resin is abrasion resistant and withstands almost all stringent cleaning regimes, making phenolic resin an almost perfect material for a clean room door.

Built using the same innovative design as **PBSC's** stainless steel and glass doors, phenolic resin doors incorporate a flush vision panel, and are supported by the renowned **PBSC** stainless steel or powder-coated wrap-around doorframe, with its clean, uninterrupted lines.



## Applications

**PBSC** phenolic resin door sets are primarily used in clean room environments. They offer excellent abrasion resistance and chemical resistance making them an ideal choice for any application.

Phenolic resin provides a high resistance to corrosive chemicals and it is often specified to accommodate the harsh exposure of severe chemical environments.

## Key Features

- Solid core door leaf (16mm thick).
- Flush glazed vision panels
- Full stainless steel or powder coated wrap-around frame
- Unique **PBSC** cast stainless steel hinge for maximum opening
- Custom frame width with no rebate on frame
- **PBSC** concealed clean room door closer
- No visible fixings





# PBSC Vision Panels

## Our attention to detail is clearly visible

The **PBSC** viewing vision panel provides a clean area, double glazed unit with a polished stainless steel architrave, or a lower cost alternative with powder coated steel architrave. As with **PBSC** door frames, the vision panel combines a seamless frame with architraves to both sides of the vision panel. The windows have no visible fixings and a flush finish to enable the frame to be cleaned easily.

Vision panels can be triple-glazed for fire-rating (tested and certified) to 2 hours. In a recent development **PBSC** vision panels can also be supplied incorporating an ingenious magnetically operated venetian blind secured between the glass.



## Applications

Vision panels are essential in controlled environments to provide a visibility and "open space" atmosphere for operatives. The **PBSC** vision panel is to be found in many pharmaceutical, laboratory, biotech and NHS facilities.

**PBSC** vision panels offer a high quality, long-lasting system that is easy to clean and with a flush finish. The panel can be made to bespoke measurements, to retro fit into existing buildings, or in standard sizes for new constructions.

## Key Features

- Flush design, with double or triple glazing
- Engineered to suit virtually any wall thickness
- 1.6mm stainless steel or powder coated zinc construction
- No visible fixings



# PBSC Transfer Hatches

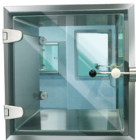
## Tough, tidy and transparent

**PBSC** transfer hatches are available in a range of material construction, phenolic resin, powder coated zintec steel or 304/316 grade stainless steel. The refined design includes a flush interior to the hatch and **PBSC's** unique mechanical interlock system aids in the isolation between clean and lower grade areas.



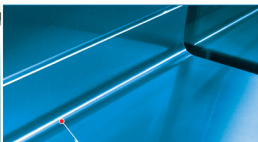
The absence of internal protrusions or recesses facilitates easy cleaning. The frameless glass doors are visibly clean and the operative can see any items in the hatch ready for transfer.

**PBSC** also offer a stainless steel fire rated hatch, tested and certified to 1-hour, complete with stainless steel door and vision panel.



## Applications

The **PBSC** transfer hatch (often referred to as a 'pass through chamber') is used for passing products, equipment or even paperwork between the various graded rooms. **PBSC's** innovative use of materials and construction techniques make these transfer hatches cost-effective for all manner of projects, including pharmaceutical facilities, hospitals, laboratories and any controlled environment.



**Smooth internal corners**  
Enables easy cleaning

**Stainless steel**  
Surfaces with no visible fixings

**Unique PBSC hinge**  
Cast stainless construction

## The perfect transfer hatch

### Key Features

- Unique proven PBSC mechanical interlock system as standard
- No visible fixings
- Robust PBSC cast stainless steel hinge assembly
- 10mm thick toughened glass door leaf (non-fire rated hatches only)
- Easy clean surfaces
- 1.6mm thick stainless steel, 1.6mm powder coated zinc or 16mm phenolic resin construction
- Optional electro mechanical interlock
- Optional air purge systems



**Unique PBSC latch**  
and mechanical  
interlocking system

# PBSC Trolley Hatch

## Safely transferring loads from room to room

**PBSC** trolley hatches are manufactured along the same lines as **PBSC** transfer hatches, being floor-mounted to allow the transfer of heavy substances in an efficient and easy manner, without having to load and unload trolleys. The flush interior to the hatch, with an absence of protruding or recessed areas, allows easy, cleaning. The hatch includes the unique **PBSC** mechanical interlock system which has been proven for over 20 years.

The toughened plate glass doors ensure minimal pressure loss when passing products or equipment between clean rooms and lower grade areas, and ensure visibility for easy movement of trolleys between rooms.

The hatches are available in a range of material construction, including phenolic resin or 304/316 grade stainless steel. **PBSC** offer a certified 1-hour fire-rated trolley hatch, of stainless steel construction, complete with stainless steel door and vision panel.



## Applications

**PBSC** trolley hatches are vital for applications where the transfer by trolley of heavy products or equipment is an absolute necessity in terms of convenience and to satisfy even the most stringent health and safety regulations.

**PBSC's** innovative use of materials and construction techniques make trolley hatches cost-effective for all manner of applications in pharmaceutical, hospitals, laboratories and any controlled environment.





**Fire rated trolley hatch**  
Complies to fire rating laws

**Large viewing panel**  
for clear visibility

**Bespoke locking handle**  
stainless steel construction

**Unique locking arrangement**  
machined from solid stainless steel

**High grade stainless steel**  
fabrication throughout

## Key Features

- Unique proven PBSC mechanical interlock system as standard
- Stainless steel or phenolic resin construction
- No visible fixings
- Robust PBSC cast stainless steel hinge assembly
- 10 mm thick toughened glass door leaf (non fire rated trolley hatch only)
- Easy clean surfaces
- 1.6mm thick stainless steel or 16mm phenolic resin construction

# PBSC Cleanroom Furniture

## Furniture with a difference

**PBSC** furniture is designed to meet with our client's specifications. The furniture is constructed from phenolic resin with no visible fixings, making it aesthetically pleasing, solid, reliable and easy to clean.

All furniture (except the step-over bench) is available with sloping tops, thus helping to reduce the amount of particles that can accumulate. Choose from lockers, garment holders, shoe storage or step-over benches.



## Applications

**PBSC** clean room furniture is designed for use in changing room areas. Phenolic resin offers excellent abrasion resistance and withstands contact with almost all cleaning agents. Phenolic resin does not rot, corrode, split, crack, warp or shed particles.

## Key Features

- Constructed with no visible fixings
- Adjustable stainless steel support legs
- Made to client specification
- 16mm phenolic resin



# PBSC Emergency Escape Panel

## Keeping your safety in mind

Emergency escape panels, also known as breakout panels, provide a quick escape for personnel from a clean room or high containment area in times of emergency. The unit is sealed and offers a flush, easy-clean surface within a clean room facility.

The lightweight acrylic panel is sealed within a **PBSC** frame finished flush to the structural opening. The frame is available in stainless steel or powder coated steel.

## Applications

**PBSC** emergency escape panels are designed for escape in emergency situations from a clean room facility. They are in widespread use throughout the pharmaceutical, biotechnological and healthcare industries.

## Key Features

- Stainless steel assembly and pull handles for ease of egress
- Push and pull types available
- 1.6mm thick stainless steel or 1.6mm powder coated zinc
- Installation in front of fire escape door with rebate frame option
- Flush wrap-around frame for clean room finish
- 5mm acrylic panel, clear/opaque/solid colour
- Fully-sealed unit
- Made to suit wall thickness or existing structural opening



# PBSC Inflatable Seal Door

## Our seal of quality in every product

If a facility requires high containment, the **PBSC** inflatable seal door will provide a practical and functional solution without the need for a floor threshold.

The seal system is operated by air pressure from a compressed air system within the building. With a stainless steel inset threshold, the inflatable seal door has the advantage of allowing wheeled traffic through the doorway.



## Applications

The **PBSC** inflatable seal door is used primarily in high containment situations where air leakage is not permitted, such as bio-hazard laboratories, pharmaceutical or medical clean rooms. The seal allows high containment during decontamination and fumigation processes in clean room facilities and laboratories...





## Key Features

- Flush glazed vision panels
- Inflatable Seal around the circumference of the leaf
- Full stainless steel wrap-around frame
- Unique PBSC cast stainless steel hinge assembly allowing for maximum clear opening
- Custom-made doorframe to suit site-specific wall thickness
- No threshold on door frame

### Stainless steel fabrication

With radius corners for better sealing

### Inflatable seal

Helping ensure airtight enclosure

### Air supply flow

Over engineered quality parts maintaining a sealed environment

### Bespoke handle

Made from stainless steel

# PBSC Decontamination Showers

## Adaptable to specific decontamination requirements



**PBSC** decontamination showers are constructed to a modular design using **PBSC** standard components. The shower will provide a range of decontamination solutions to meet customer specific requirements.

The decontamination options include air, ultrasonic fog, soft spray and a powerful spray jet. Any of these can then be combined to provide a bespoke decontamination system.



The innovative ultrasonic fogging system reduces total water consumption whilst providing efficient decontamination. Decontamination fluids, cleansing liquids and sterilization agents can be dosed at controlled ratios within the fogging cycle to enable rapid contact with the operative's air-suit.

## Applications

**PBSC** decontamination showers are used to clean personnel on entry or exit from high containment areas to remove traces of possible contamination from protective garments.



## Key Features

- Stainless steel construction
- PBSC glass door sets with cast stainless steel hinge assembly
- Concealed door closer system
- Interlocking doors with adjustable time sequence
- Emergency over-ride switch
- Air suit breathing point
- HEPA filters & recirculating air system (air handling options).



Stainless steel  
surfaces with  
no visible fixings

Connection  
to air suit

Ultra-sonic  
fogging nozzles  
Fine mist saturation

Adjustable  
air nozzles  
Fine mist saturation

Sloped  
extract system  
Reduces moisture  
build up

Stainless steel  
non-skid floor grid  
For easy drainage



PBSC Supplying bespoke  
cleanroom solutions worldwide



The complete cleanroom  
component manufacturer

**INSTALLATION, WARRANTY AND AFTER-SALES CARE**

PBSC employs a specialist team of highly skilled engineers to ensure the highest standards of product installation.  
Preventative maintenance contracts can be quoted on request and are recommended.  
PBSC aim to dispatch major spare items at minimum notice.  
1-year warranty is standard on all products.

Abbott-Murex

Actavis

AstraZeneca

Baxter

Bristol-Myers Squibb

Boehringer Ingelheim

GlaxoSmithKline

Intel

Intervet

Johnson & Johnson

Lilly

Lonza

Merck

MRC

NHS Hospitals

Novartis

Patheon

Pfizer

sanofi-aventis

Schering-Plough

3M Healthcare

Wyeth

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**PRODUCT PORTFOLIO**

Clean Room Door Sets  
Personnel/Product Decontamination Showers  
Personnel/Product Air Showers  
Viewing Panels  
Change Room Equipment  
Trolley and Transfer Hatches  
Access Panels  
Mechanical/Electrical Utility Stations  
Transfer Ports  
Wall Protection Systems  
Emergency Escape Panels  
Other Bespoke Items

Due to continued product development PBSC LTD withhold the right to change or alter specifications without prior notice.

