

Clean Room Equipment

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316 GRADE STAINLESS STEEL PASS THROUGH HATCHES WITH GLASS DOORS

*Available to clients own bespoke sizes
(see page 2 for example of typical size).*



APPLICATIONS

Clean Room Equipment's Pass Through Hatches have been designed to provide, in most cases, compliance with building regulations when installed correctly.

They allow the transfer of materials between Clean Rooms and support areas whilst minimising the risk of airborne cross-contamination.

The elimination of surface contamination on materials to be transferred is usually effected by spraying with disinfectant and/or wiping with sterile non-shedding wipes.

It is the responsibility of the user to implement validated disinfection procedures.

FEATURES:

This design of hatch has two clear toughened glass doors with polished edges, which are secured to the opposite outside faces of the hatch with surface mounted, black acetal hinges (Southco ref: C6-0). These hinges are complete with cover caps that clip over the screw heads that secure the hinges to the hatch.

The doors are deliberately not sealed in order to allow a small volume of air from the 'clean' side (which is normally at a higher pressure) to continuously flush the interior of the hatch. This volume is relatively small by comparison with room air flows, that, it should have no perceptible effect on room pressures.

The doors are mechanically interlocked to prevent them both being opened together. The external components that make up the interlock system, are all manufactured from black acetal.

Welded fabrication with clean and radiused surfaces.

These hatches are typically supplied with an integral flange flush to 1 side (handing's to be advised), and a loose flange to enable installation within a wall. Alternate arrangements can be made if a hatch requires to be fitted protruding on both sides. If fitted protruding, support legs may need to be considered – extra cost.

Further details follow.

TYPICAL DETAILS (for the purpose of showing typical dimensions) :-

Model	External Dimensions			Internal Dimensions			Price
	Width x Height x Depth			Width x Height x Depth			
Glass	600*	600*	450	490	540	450	On request
NB *Allow +10mm for structural opening, includes allowance for fixing flanges.							

GENERAL CONSTRUCTION :

Double skin welded construction from polished 2mm thick, 316 grade stainless steel throughout. Doors are 6mm thick clear toughened glass, with all edges radiused and polished. All door and interlock fittings are manufactured from black acetal, with stainless steel fixing screws.

Loose installation flanges are manufactured from 2mm thick, 316 grade polished stainless steel sheet, and folded to form 30 x 30mm angles, which are welded to provide typical 4 sided surround flanges.

WARRANTY :

12 months excluding glass from date of final delivery.

TYPICAL FIXING/INSTALLATION DETAILS :

Flanges are typically supplied flush (**) to 1 side, with a separate loose flange for the opposite side.

(**) If advised of installation handing, this flange would be secured as part of the hatch construction (factory fitted).

From the 'flush' side designated (**) 'Clean Side', offer the hatch into the prepared aperture until the flange is tight up to the wall (dry run). If happy with the interface between wall and flange, then pull hatch slightly away from wall and apply a bead of silicone/adhesive, to the back of the flange and reposition. On the opposite side 'Dirty Side', offer the other flange over the hatch with the angle to the inside and push flush to the wall. Again check the interface between the flange and wall before securing to the wall and hatch with silicone/adhesive, ensuring that the hatch is level when fitted.

If support legs, or a frame is used to support the hatch, position under the hatch and secure, then adjust to correct height ensuring hatch remains level.

Once in position, fill any gaps between the hatch and flanges with a bead of grey silicone sealant (supplied).

OPERATING DETAIL :

To open a door, turn the semi-circular turn block (interlock) on the front edge of the hatch to vertical. The door should spring open allowing access to the inside of the hatch. This sprung plunger remains extended whilst this door is open which acts as a stop should anyone try and access the other door, because across the opposite door the interlock plate should be horizontal across the door and cannot be turned due to the restriction of movement by the extended plunger on the open side, (turn blocks are connected).

On closing the door, turn the semi-circular turn block to vertical with one hand, and with the other hand push the door closed. Ensure the turn block has returned to horizontal before releasing the door.

(Do not push plunger 'in' on open side, manually).

OPTIONS :

We can offer bespoke sizes to suit all applications in 316 or 304 grade stainless steel, as well as mild steel powder coated. Other designs of "Standard" and "Framed" Pass Through Hatches are also available. This includes versions glazed with fire-resistance glass. (see alternative product information sheets).

FOR FURTHER INFORMATION PLEASE CONTACT :-

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