

SP PASS THRU SPECIFICATION FOR WOOD/PLASTIC CONSTRUCTION

1.0 PURPOSE AND SCOPE

This specification describes a factory fabricated pass thru enclosure to be used for maintaining an air sealed air lock between a Clean Room environment and outside contaminated atmosphere. It shall be designed with simplicity in mind while maintaining an aesthetic appearance.

2.0 CONSTRUCTION

- A. Model SP pass thrus shall be constructed of 1" thick particle board (the bottom is made from 1 piece of 1" and one piece of 0.625" particle board). The exterior and interior surfaces shall be covered in standard grade white plastic laminate.
- B. The doors for the pass thrus are made of 0.25" thick clear acrylic for the SPW121212. The doors for the SPW181818 to SPW303030 are made from 0.5" thick clear acrylic. Doors on pass thrus SPW363618 and larger have a clear anodized aluminum frame door with 0.25" clear tempered glass vision panel.
- C. The trim angle for the SPW121212 to SPW242424 is 1" x 1" x .125" clear anodized aluminum. The trim angle for the SPW303018 and larger is 1.5" x 1.5" x .125" clear anodized aluminum.

3.0 Hardware

- A. The pass thru catches are a spring loaded chrome plated device that enables the door to be closed without turning a handle.
- B. The hinges are a lift off stainless steel hinge that enables easy cleaning and replacement.
- C. The seals for the doors are Pemko S88W vinyl bulb gasket.
- D. The mechanical interlock is made from 0.25" nickel plated all tread with polished aluminum turn buckles on each end that are turned 90 degrees from each other so that when one side has the buckle clear of the door the opposite side blocks the door.

4.0 Options

- A. Electric interlock system
 - 1. The pass thru door locks are a 24VDC magnetic lock
 - 2. Each door has a magnetic sensor switch that determines the status of the door.
 - 3. The pass thru shall have a recessed NEMA 1 junction box in the top of the pass thru with a 24VDC power supply and terminal blocks. This option adds 4" to the overall height of the pass thru.
- B. Fan filter module
 - 1. There shall be a cutout in the top of the pass thru with a 99.99% @ .3 micron HEPA fan filter unit bolted to the top. There shall be perforated aluminum discharge point on one side of the pass thru on the dirty side.
 - 2. The fan filter shall require a 120 VAC power connection.
- C. Shelf
 - 1. The shelf shall be constructed of a wood core with white plastic laminate finish on the top, bottom and edges.
 - 2. The shelf is supported by 4 zinc plated steel shelf standards with zinc plated steel clips.
 - 3. Each shelf will support up to 25 pounds each.
- D. Support brackets
 - 1. Support brackets are available for pass thrus when they protrude more than 18" from the wall surface or when the supporting wall is less than 4.5" thick.
 - 2. The support brackets are made from a wood core with a white plastic laminate finish.