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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. Pass thrus shall be constructed of one of the following;

1. Double plywood wall (one 1" and one 3/4" sheet of plywood) with a white plastic laminate finish.
2. Double plywood wall (one 1" and one 3/4" sheet of plywood) with a .25" aluminum skin covering with a white powder coated finish.
3. Double wall 16 gauge steel with a white power coated finish.
4. Double wall 16 gauge #304 stainless steel with a #4 brushed finish.
5. Aluminum honeycomb panels stopped into an extruded aluminum frame with a white power coated finish.

B. Trim shall be clear anodized aluminum angle (except with stainless steel pass thrus which shall have 16 gauge stainless steel trim angle).

3.0 DOORS

A. Non-rated doors shall be constructed of .375" thick clear acrylic for doors up to 24" x 24", .5" for pass thrus up to 36" x 36" and .25" clear acrylic stopped into a door frame made from the same material as the pass thru body of all doors larger than 36" x 36".

B. Door latches shall be a spring loaded device so doors shall close by pushing the door shut. The latching device shall be chrome plated steel. (Doors larger than 36" x 36" will have a quarter turn lever with a chrome plated finish.)

C. The doors shall manual interlock levers made of .75" x .75" square aluminum stock (exception fire rated doors must have electric door locks).

D. Each door shall be sealed with Pemko # SW88 white gasket seal.

E. Pass thrus located in fire walls shall be supplied with a fire rated door and frame constructed of painted steel which is mounted to one side of the pass thru. The door shall be labeled by "Warnock Hersey" and the pass thrus shall have 24VDC interlocks. The fire rated door shall have spring loaded hinges, a passage lock approved for fire doors and a 10" x 10" x 1/4" wire glass window in the door for doors rated for 90 minutes or less. Door frames are welded as one piece therefore the cutout must be 6-12" larger than the pass thru frame and the wall filled back into the door frame.

F. Pass thrus are available with automatic doors.

1. Vertical slide air operated
2. Vertical slide electric
3. Horizontal slide electric

4.0 FILTRATION

A. Pass thrus requiring filtration shall have a fan filter module attached to the top of the pass thru box.

B. Fan Filters shall have a hood attached to the top of the pass thru box to cover the fan filter unit. It shall be constructed of the same material the pass the box is constructed.

C. The air flow can be 100% recirculating or have air intake on the clean side and discharge the air on the dirty side.

4.0 SPECIAL REQUIREMENTS

A. Stainless steel pass thrus used in medical/pharmaceutical applications shall have all seams, interior and exterior, filled with a continuous weld and ground smooth to match the finish of the pass thru box.

B. Nitrogen purge

C. Shelves

1. Adjustable
2. Fixed

D. Lighting

1. 115 VAC/1 phase/60 Hz
2. Fluorescent type

E. Cart pass thrus

1. Has three sides with no bottom. The bottom of the pass thru sets on the existing floor.

2. Doors shall be a store front fixture door.

- a. Clear anodized aluminum construction
- b. 1/4" clear tempered glass
- c. Surface mounted door hinges
- d. Surface mounted door closer #653AL International Door Closers
- e. 24 VDC electric door interlocks complete with step down transformer.