

**SECTION 11 17 36
PACKAGE TRANSFER UNITS**

SPEC WRITER NOTE: Delete between // // if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies package transfer units and pressurized pass-through units used in lab/cleanroom spaces.

1.2 RELATED WORK

- A. Section 08 56 19 PASS WINDOWS: Standard pass windows.
- B. Section 08 56 53, BLAST RESISTANT WINDOWS: Windows and frames of a forced entry/ballistic resistant rated.
- C. Section 08 56 59, SERVICE AND TELLER WINDOW UNITS: Deal trays of a Forced Entry/Ballistic Resistant rating.
- D. Section 08 80 00, GLAZING: Glazing and ballistic rated glazing.
- E. Section 09 06 00, SCHEDULE FOR FINISHES: Color and texture of factory finish.
- F. Section 13 34 19, METAL BUILDING SYSTEMS: Guard Booths.

1.3 SUBMITTAL

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Shop Drawings: Show material and finish, size of members, and details of construction, installation and anchorage:
 - 1. Package transfer box
 - 2. //Pressurized Pass-through window//
- C. Manufacturer's Literature and Data:
 - 1. Package transfer box
 - 2. //Pressurized Pass through window//
- D. Certificates: Letter from manufacturer indicating the products have been certified to meet the specified ratings.

1.4 DELIVERY

- A. Deliver products to site in sealed packages of containers; labeled for identification with manufacturer's name, brand, and contents.

1.5 STORAGE

- A. Store products in weathertight and dry storage facility.

- B. Protect from damage from handling, weather and construction operations before, during and after installation in accordance with manufacturer's instructions.

1.6 PERFORMANCE REQUIREMENTS

- A. Fabricate and install Forced Entry/Ballistic Resistant (FE/BR) package transfer assemblies to achieve indicated levels of resistance. Extend resistance to include anchorages, interfaces with adjoining substrates, and hardware. Security attacks shall be unable to penetrate through closed/locked assemblies in manner described; it is recognized that such attacks may damage units beyond repair and reuse, requiring replacement of work by Government.

1.7 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. ASTM International (ASTM):
- A167-99 (R2009).....Stainless and Heat-Resisting Chromium-Nickel
Steel Plate, Sheet, and Strip
- A1008/A1008M-20.....Steel, Sheet, Cold-Rolled, Carbon, Structural
High Strength Low Alloy
- B26/B26M-18e1.....Aluminum Alloy Sand Castings
- B221-14.....Aluminum and Aluminum-Alloy Extruded Bars,
Rods, Wire, Shapes, and Tubes
- C. American Society of Mechanical Engineers (ASME):
- B18.6.4-98 (R2005).....Thread Forming and Thread Cutting Tapping
Screws
- D. American Welding Society (AWS):
- D9.1-06.....Sheet Metal Welding Code
- E. National Association of Architectural Metal Manufacturers (NAAMM)
- AMP 500-06.....Metal Finishes Manual
- F. Federal Specifications (Fed. Spec):
- A-A-1922A.....Shield, Expansion
- G. Underwriters Laboratories, Inc. (UL):
- 752-11.....Bullet-Resisting Equipment.

PART 2 - PRODUCTS

SPEC WRITER NOTE: Make material requirements agree with applicable requirements specified in the referenced Applicable Publications.

2.1 MATERIALS

- A. Aluminum:
 - 1. Extruded: ASTM B221, alloy 6063-T5 and alloy 6463-T5.
 - 2. Cast: ASTM B26.
- B. Stainless Steel: ASTM A167, Type 302B.
- C. Steel Sheet: ASTM A1008.
- D. Fasteners:
 - 1. Exposed Fasteners: Stainless steel or chromium plated brass, finish to match adjacent surface.
 - 2. Concealed Fasteners: Steel, hot-dip galvanized.
 - 3. Screws: ASME B18.6.4.
 - 4. Expansion Shields: A-A-1922A as recommended by manufacturer for component and substrate for use in solid masonry or concrete.

2.2 PRODUCT REQUIREMENTS

- A. Products meet, as a minimum, the requirements specified, and be a standard commercial product of a manufacturer regularly and presently manufacturing products specified.

SPEC WRITER NOTE: Verify details. Show location at Pharmacy or other locations and placement in wall.

2.3 PACKAGE TRANSFER BOX (DETAIL NO. SD5659-01)

- A. Security prefabricated type, of size and design shown complete with doors, body and flanges.
- B. Doors: Steel with steel piano hinges.
 - 1. Mechanical interlocking type that prevents both doors from being opened at same time.
 - 2. Pull handles on patient side, locking handles on Secure side. Bright chromium plated finish on handles.
- C. Body of transfer box: Use 5 mm (3/16-inch) thick welded sheet steel with 3 mm (1/8-inch) thick steel fixed outer flanges and adjustable inner flanges.
- D. Finish paint exposed doors and flanges, in color specified in Section 09 06 00, SCHEDULE FOR FINISHES.
 - 1. AMP 500-505.
 - 2. Manufacturer's standard baked-on prime coat on surfaces and baked-on finish coat on exposed interior surfaces of package transfer box.

2.4 // PRESSURIZED PASS-THROUGH WINDOWS

A. Prefabricated type, of size and design shown with unit constructed of 16 & 20 ga type 304 stainless steel with w #4 finish. Provide in //standard size //16"//24"//36" and //custom Size //__//.

1. Provide complete with:

- a. -chamber area to be double wall construction
- b. -Electrical interlock system using electro-magnetic locks (fail safe)
- c. -Single pass fan powered HEPA filter system for continuous operation
- d. -Filter to be 12 x 12 x 3 ½" downstream gel seal HEPA filter 99.99% effective on particles of 0.3 microns in size
- e. -Air to exhaust from chamber thru perforations in door of lower classified area
- f. -Welded one piece finishing trims for each side of Pass-Thru
- g. -Doors with stainless steel pin hinges, stainless steel latching handle, 1/4" clear safety glass glazing and EPDM gasket seal
- h. -1ea Mag gage to monitor HEPA filter pressure
- i. -Red/Green door status lights
- j. -2ea Support gussets 16ga stainless steel as required for size pass-through selected.//

PART 3 - EXECUTION

SPEC WRITER NOTE: Edit each of the following paragraphs to suit the items being installed, cleaned and adjusted.

3.1 INSTALLATION

- A. Install product by experienced mechanics capable of installing item in accordance with drawings, specifications, and shop drawings.
- B. Set work accurately, in alignment and where shown. Install plumb, level, free of rack and twist, and set parallel or perpendicular to required line and plane of surface.
- C. Provide anchoring devices and fasteners necessary for securing each item to building construction.
 1. Do not use power actuated drive pins.
 2. Do not anchor to wood ground strips.
- D. Touch up abraded and damaged areas of finish coat with paint furnished by the manufacturer.

- E. Fit flanges of package transfer box tight against walls. Use shims where required for leveling.
- F. // Connect pass through to HVAC supply air and electrical system connections as required.//

3.2 CLEANING AND ADJUSTING

- A. After installation, clean items as recommended by the manufacturer and protect from damage until completion of the project.
- B. Adjust movable parts including hardware to operate as designed, without binding or deformation of the members, centered in the opening or frame, and where applicable, with contact surfaces fit tight and even, without forcing or warping the components.

- - - E N D - - -