

SECTION 084243**ICU / CCU ENTRANCES****PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Packaged units consisting of doors, sidelights, frames, and hardware.

1.2 RELATED REQUIREMENTS

- A. Section 07 84 00 - Joint Sealers.
- B. Section 08 81 00 - Glazing.

1.3 DEFINITIONS

- A. SX Panel: Sliding panel that swings open upon pushing.
- B. SO Panel: Sidelight panel, normally stationary, that will swing open upon pushing.
- C. X Panel: Sliding panel unable to swing.
- D. O Panel: Sidelight panel unable to swing.

1.4 SUBMITTALS

- A. See Section 01 33 23 - Submittal Procedures.
- B. Verification Samples: For each finish product specified, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- C. Operating and Maintenance Data: Operating and maintenance instructions, and parts lists.
- D. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.
- B. Installer Qualifications: Company specializing in installing entrances of this type.
 - 1. Factory trained.
 - 2. Minimum three years of experience
 - 3. Approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in factory packaging, protected from damage.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store products under cover and elevated above grade.

1.7 WARRANTY

- A. Provide five year manufacturer warranty.

PART 2 PRODUCTS**2.1 MANUFACTURERS**

- A. ICU/CCU Entrances:
1. Besam Entrance Solutions;: www.besam.com.
 2. Horton Automatics Type 310T Trackless ICU Door: www.hortondoors.com.
 3. Stanley Access Technologies Series 7000 ICU Door Package: www.stanleyaccesstechnologies.com.
 4. Or Approved Equal
- B. Provide all ICU/CCU entrances from a single manufacturer.

2.2 ENTRANCE ASSEMBLIES

- A. Entrance Assemblies: Factory assembled, manually operated, extruded aluminum door and frame with normally-closed but operable sidelights, complete with all hardware and operating components.
1. Door and Sidelight Construction: Heavy-duty interlocked extruded tubular sections, through-rod bolted construction with steel corner support at hinge stile of carrier-suspended swinging panels to reduce sag in sliding or breakout mode.
 2. Finish: Clear anodic; Architectural Class II, clear coating 0.010mm or thicker, complying with AAMA 607.1
- B. Dimensions:
1. Rough Opening Width: As indicated on the drawings.
 2. Overall Frame Width (Outside): As indicated on the drawings.
 3. Clear Opening Width: As indicated on the drawings, when all swinging panels are fully open.
 4. Normal Operation Opening Width: As indicated on the drawings.
 5. Maximum Panel Width: As indicated on the drawings.
 6. Rough Opening Height: As indicated on the drawings.
 7. Overall Frame Height: As indicated on the drawings.
 8. Clear Door Opening Height: As indicated on the drawings.
 9. Panel Thickness: 1-3/4 inch (45 mm).
 10. Header Height: 4-3/4 inches (120 mm), nominal.
 11. Jamb Width: 1-3/4 inch (45 mm).
 12. Frame Depth: As required to suit suspension, swing control, and wall opening.
 13. Stile Width: 2 inches (54 mm), nominal.
 14. Top and Bottom Rail Height: 4 inches (100 mm), nominal.

2.3 COMPONENTS

- A. Aluminum Extrusions for Doors, Sidelights, Headers, and Trim: Alloy as recommended by manufacturer for construction and specified finish; nominal 0.125 inch (3.2 mm) wall thickness.
- B. Sliding Door Header: Track and suspension system concealed with removable cover.
1. Track: Extruded aluminum, with anti-rising, anti-derailing design.
 2. Door Suspension System: Two, wheeled carriers per panel, with steel ball bearings; wheel diameter minimum 1-1/4 inch (32 mm).
 3. Door Hanger Brackets: Nylon wheels with hardened steel bearings.
- C. Glazing Stops: Manufacturer's standard snap-on extruded aluminum square stops with preformed resilient glazing gaskets.

- D. Hardware: Door handles, recessed door pulls, and other hardware required for normal and swing open. Positive latching for smoke tight assembly.
- E. Glazing: Shop glazed, See Section 08 80 00 for glazing type..

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that openings are plumb, square, and ready for installation of entrances.
- B. Verify that overhead support is properly located and securely anchored.
- C. Verify that floor is properly prepared to receive recessed door guide track.
- D. Do not begin installation until substrates have been properly prepared.
- E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Where aluminum components will contact different metals, prior to installation paint contact surfaces with primer or apply sealant or tape recommended by manufacturer for protection against galvanic action.
- D. Where aluminum components will contact concrete or masonry, prior to installation paint contact surfaces with bituminous paint.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, except where more stringent requirements are specified.
- B. Install entrances securely anchored in place, plumb, level, and true to location, in alignment with established lines and grades, without warp, bow, or racking of members.
- C. Where frames are assembled in field, fit frame joints hairline tight without burrs or distortion; rigidly secure nonmoving joints and seal watertight.
- D. Install floor track recessed in floor, with top flush with finished floor surface.
 - 1. Fill and level floor recess and set track with non-shrink grout.
- E. Install field-installed hardware using concealed fasteners to the greatest extent possible.
- F. Install glazing in accordance with requirements of Section 08 80 00.
- G. Seal joint between perimeter of frame and adjacent construction with sealant, both sides, tooled concave, closing all gaps between frame

and adjacent construction, unless otherwise indicated.

- H. Install sealants in accordance with requirements of Section 07 84 00.
- C. Adjust for proper operation, without binding or scraping and without excessive noise; lubricate operating hardware and other moving parts.
- D. After operation of the completed installation for minimum of 300 cycles, readjust and re-lubricate.

3.4 CLEANING

- A. Clean installed work to like-new condition.

3.5 CLOSEOUT ACTIVITIES

- A. Demonstrate operation of equipment to Owner's designated personnel.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION