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ARCHITECTURAL SPECIFICATIONS

MANUAL ICU/CCU ENTRANCES

Profiler-ICU®
Intensive Care Unit, Patient Access

A12.1

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DIVISION 08 - OPENINGS

SECTION 08 42 43 – INTENSIVE CARE UNITS / CRITICAL CARE UNIT ENTRANCES

Specifier Note: Coordinate and edit articles and paragraphs below to suit project requirements. Add section numbers and titles per CSI "MasterFormat" and specifier's practice. Consult with manufacturer regarding performance requirements for units applicable to project, as well as, related equipment and accessories required.

PART I – GENERAL

1.01 SUMMARY

- A. **WORK INCLUDED:** Furnish complete intensive care aluminum door system, as specified, that has been manufactured, fabricated and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
- B. **RELATED WORK:**
 - 1. Concrete: Division 03, applicable sections.
 - 2. Masonry: Division 04, applicable sections.
 - 3. Openings: Division 08, applicable sections.

1.02 REFERENCES

- A. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) 101: Appendix Dissimilar Materials.
- B. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): ANSI Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
- C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- D. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.

1.03 SUBMITTALS

- A. **PRODUCT DATA:** Submit manufacturer's complete product and installation data. Drawings to include layout, profiles, anchorage, accessories, finish and glazing details (where required).
- B. **SHOP DRAWINGS:** Submit drawings showing layout, profiles, product components including anchorage, accessories, finish and glazing details (where required).
- C. **QUALITY ASSURANCE AND CLOSEOUT SUBMITTALS:** Submit Manufacturer's Operation and Maintenance Data and Warranty document as specified herein.

1.04 QUALITY ASSURANCE

- A. **INSTALLERS QUALIFICATIONS:** Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.
- B. **MANUFACTURER'S QUALIFICATIONS:** Manufacturer to have minimum (5) five years successful experience in the fabrication of intensive care doors of the type required for this project. Manufacturer capable of providing field service representation during installation, approving acceptable installer and approving application method.



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1.05 WARRANTIES

- A. **MANUFACTURER'S WARRANTY:** Units to be warranted against defect in material and workmanship for a period of one year from the Date of Substantial Completion. Manufacturer's warranty is in addition to, and not a limitation of, other rights owner may have under Contract Documents.
- B. **DISTRIBUTOR'S WARRANTY:** 1 year warranty: Labor & transportation charges for defective parts replacement.

1.06 PROJECT CONDITIONS

FIELD MEASUREMENTS: Verify actual dimensions/openings by field measurements before fabrication and record on shop drawings. Coordinate with fabrication and construction schedule to avoid construction delays.

1.07 DELIVERY, STORAGE AND HANDLING

- A. **ORDERING AND DELIVERY:** Comply with factory's ordering instructions and lead time requirements. Delivery shall be in factory's original, unopened, undamaged containers with identification labels intact.
- B. **STORAGE AND PROTECTION:** Provide protection from exposure to harmful weather conditions and vandalism.

PART II – PRODUCTS

2.01 MANUFACTURER

HORTON AUTOMATICS, a division of Overhead Door Corporation, shall manufacture intensive care sliding door(s) of type(s) and size(s) specified on plans and door schedule.

2.02 EQUIPMENT

- A. **MANUFACTURED DOOR UNITS:** Shall include header with track, jambs, sliding door panel(s), and sidelite(s). Units can be mounted within rough opening with sliding panel(s) sliding along sidelite.
1. Configuration: Single Slide or Biparting
 2. Mounting Type:
 - a. Perimeter mounted within rough opening or curtain wall.
 - b. Surface mounted onto face of wall.
 3. Door Type:
 - a. Type 010: Slide panel(s) 'X' shall slide alongside wall utilizing floor mounted guide.
 - b. Type 110: Slide-swing panel(s) 'SX' shall slide along fixed sidelite 'O' utilizing floor mounted guide.
 - c. Type 310: Slide-swing panel 'SX' shall slide along interior side of swing-out sidelite 'SO' utilizing floor mounted guide.
 - d. Type 310 Trackless: Slide-swing panel 'SX' shall slide along interior side of swing-out sidelite 'SO' (door must be in full open position) utilizing trackless floor system with no floor track/guide or recess required.
 - e. Telescoping Door Type 010T, 110T, 310T or 310T Trackless: When unit slides in full open position, maximum slide opening will be approximately 70% of overall package width.
- B. **HEADER:** Shall be aluminum with removable face plate. Header sizes to be:
1. 4" (102 mm) deep by 2 1/2" (63 mm) high for Types 010, 110, and 310,
 2. 7" (178 mm) deep by 2 1/2" (63 mm) high for Telescoping door types.
 3. Optional Profiler® header for all unit types (except Telescoping): 4" (102 mm) deep by 6" (152 mm) high.
- C. **HEADER TRACK:** Shall be aluminum, nylon covered and replaceable. Telescoping doors will have two separate tracks for sliding panels to travel. Rollers will be steel, high quality ball bearing wheels 1-1/4" (32 mm)



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diameter. Anti-Derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel.

- D. SLIDING PANEL(S) AND SIDELITE(S): Shall be aluminum, 1-3/4" (44 mm) deep with narrow stile construction. Weather-stripping to be along vertical rails of sliding panel(s) and sidelite(s). Concealed guides to stabilize bottom of sliding panel. Standard glazing prep to be for 1/4" (6 mm) glass.
1. Total weight limit per panel shall be:
 - a. 200 lbs. (90.7 kg) for slide panel (non-breakout)
 - b. 156 lbs. (70.7 kg) for slide-swing panel
 2. Sliding Panel and Sidelite Options shall be:
 - a. Medium and wide stiles.
 - b. Additional and/or extra wide sidelites of size and type indicated.
 - c. Recessed sidelite and track and non-threshold application.
 - d. Horizontal muntin(s) of size and type indicated.
 - e. Prep for glazing 5/16" (16 mm) to 1" (25 mm).
- E. BREAKAWAY FEATURE: Slide-swing panels can swing out 90° from any position of slide movement and require no more than 50 lbf. (222 N) of force applied at the strike stile to open. Exception: Type 310 Trackless (door must be in full open position before panels can swing out).
1. Breakout mechanism shall provide support across full width of the door, in normal operating mode. In breakout mode, torsion assembly shall support weight of the door to minimize drop.
 2. Slide-swing panels shall include intermediate horizontal rail.
- E. JAMBS/FRAME: Shall be aluminum. Jamb dimensions to be:
1. 1 3/4" (44 mm) deep by 4" (102 mm) wide.
 2. 1 3/4" (44 mm) deep by 7" (178 mm) wide for Telescoping door.
- F. HARDWARE: A recessed pull shall be provided on each side of the sliding panel. No locks required. Exception: Trackless units shall include a flush bolt lock to lock the SO.

Optional hardware:

1. ANSI A156.5, Grade 1-Point Locking provided and installed in strike rail shall include:
 - a. Hookbolt Latch, 5/8" laminated stainless steel, latching into jamb or adjacent strike rail.
 - b. Keyed 1 5/32" (29 mm) Cylinder mounted on exterior side with 31/32" (25 mm) backset
 - c. Thumbturn mounted on interior side.
2. Positive latching:
 - a. Type 110: The slide-swing panel shall be provided with positive latch that will latch this panel in place when closed. A lever handle shall be provided on each side of the sliding panel to unlock the door.
 - b. Type 310: The slide-swing panel shall be provided with positive latch that will latch this panel in place when closed. A lever handle shall be provided on each side of the sliding panel to unlock the door. The swing-out sidelite shall be provided with positive latch that will latch this panel in place when closed. A lever handle shall be provided on exterior side of sidelite to unlock the panel.

2.03 MATERIALS, FINISHES AND FABRICATION

- A. EXTRUDED ALUMINUM: ASTM B221, 6063-T5 alloy and temper, anodized:
1. Structural Header Sections: Minimum 3/16" (5 mm) thickness.
 2. Structural Frame Sections: Minimum 1/8" (3 mm) thickness.
 3. Structural Panel Sections: Commercial grade.



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B. FINISHES (for all exposed aluminum surfaces): Shall be one of the following:

1. 204-R1 Clear: Arch. Class 2 Clear Anodized Coating, AA-MI2C22A31.
2. 313-R1 Dark Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
3. 312-R1 Light Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
4. 315-R1 Black: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
5. Special Paint Coating: Color as selected.

C. PANEL CONSTRUCTION:

1. Corner block type with 3/16" steel backup plate construction, mechanically secured with minimum of four hardened steel screws. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.
2. Weatherstripping material captured in extruded aluminum door panel. Door nosing weatherstrip to be spring-loaded adjustable astragal type. Surface applied self-adhesive weatherstripping not acceptable.
3. Slide-swing doors to be supplied with adjustable glass setting block to allow for adjusting of door to meet site conditions eliminating the need for additional shims.

D. FRAME CONSTRUCTION: Butt joints, mechanically secured by means of screws & formed aluminum brackets.

PART III - EXECUTION

3.01 EXAMINATION

SITE VERIFICATION OF CONDITIONS: Installer must verify that base conditions previously installed under other sections are acceptable for product installation according to with manufacturer's instructions.

3.02 INSTALLATION

- A. GENERAL: Install door units plumb, level and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances. Provide support and anchor in place.
- B. DISSIMILAR MATERIALS: Comply with AAMA 101, Appendix Dissimilar Materials by separating aluminum materials and other corrodible surfaces from sources of corrosion or electrolytic action contact points.

3.03 CLEANING, ADJUSTMENT AND PROTECTION

- A. CLEANING: After installation, installer to take following steps:
1. Remove construction debris from construction site; as well as, temporary coverings and protection of adjacent work areas.
 3. Repair or replace damaged installed products.
 4. Clean product surfaces and lubricate operating equipment for optimum condition and safety.
- B. ADVISE CONTRACTOR: Of precautions required through the remainder of the construction period, to ensure that doors will be without damage or deterioration (other than normal weathering) at the time of acceptance.

Horton Automatics reserves the right to make product improvements and change specifications without notice

END OF SECTION