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The Automatic Choice

ARCHITECTURAL SPECIFICATIONS

MANUAL ICU/CCU ENTRANCES

Profiler-ICU® Smoke Rated Self-Closing **A21.1**
Manual Smoke Containment Barrier Door System
Trackless or with Floor Mounted Track

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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. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 105: Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives.
- E. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.
- F. UNDERWRITERS LABORATORY, INC. (UL) 1784 : Air Leakage Test of Door Assemblies
- G. INTERTEK, WARNOCK HERSEY (ETL): Testing Laboratory and Certification Agency joined with ETL SEMKO

1.03 SUBMITTALS

- A. PRODUCT DATA: Submit manufacturer's complete product and installation data.
- 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 the following:
 - 1. Manufacturer's Operation and Maintenance Data.
 - 2. 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.



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- 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.
- C. **AIR INFILTRATION RATING:** Units tested and certified by ETL to be in compliance with UL 1784. Maximum leakage rate at ambient temperature shall be less than 1 CFM/ft² of opening at 0.3 in. of water. At 400°F the rate of leakage shall be less than 1 CFM/ft² of opening at 0.3 in. of water.

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 roller track, carrier assemblies, framing jambs, slide-swing door panels, swing-out sidelite and accessories required for complete installation.
1. Configuration: Single Slide
 2. Mounting Type: Perimeter mounted within rough opening or curtain wall.
 3. Door Types:
 - a. Type 310: Slide-swing panel 'SX' shall slide along interior side of swing-out sidelite 'SO' utilizing floor mounted guide.
 - b. 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.
- B. **PROFILER® HEADER:** Shall be aluminum with removable faceplate. Header size to be 4" (102mm) deep by 6" (152mm) high with extruded z-profile reinforcement for dead load and lateral strength.
- C. **SELF-CLOSING MECHANISM:** Shall be mechanical requiring no electrical power and shall be fully concealed within header. Coiled spring under tension attached to sliding door shall work with hydraulic damper to provide adjustable 6-8 lbs of closing force. Manual opening force shall not exceed 12 lbs.
1. Standard Hold-Open:
 - a. Shall be engaged when 8-12 lbs. of force is applied to door panel in full open position.



- b. Shall be disengaged when 6-8 lbs. of force is applied to door panel.
- 2. Optional Electro-Magnetic Hold-Open:
 - a. Device shall be tied to building fire alarm system allowing the door to stay open and then automatically close when the fire alarm is triggered without user intervention.
- D. HEADER TRACK: Shall be aluminum, nylon covered and replaceable. Rollers will be steel, high quality ball bearing wheels 1-1/4" (32 mm) diameter. Anti-Derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel.
- E. SLIDE-SWING PANEL AND SWING-OUT SIDELITE: Shall be aluminum, 1-3/4" (44 mm) deep with narrow stile construction. Sliding panel and sidelite to include intermediate horizontal rail (muntin) of size and type indicated. Weather-stripping to be along vertical rails of sliding panel and sidelite. Concealed guides to stabilize bottom of sliding panel. Standard bottom rail shall be 4" (102mm) tall. Standard glazing prep to be for 1/4" (6 mm) glass. Wet glazed with red high temperature silicone sealant at corners.
 - 1. Sliding Panel and Sidelite Options shall be:
 - a. Medium stile construction: 3 3/4" (95mm) wide vertical rails with 6 1/2" (165mm) tall bottom rail.
 - b. Wide stile construction: 5" (127mm) wide vertical rails with 6 1/2" (165mm) tall bottom rail.
 - c. Prep for glazing 5/16" (16 mm) to 1" (25 mm).
 - 2. Locking Hardware: shall be provided as follows:
 - a. Positive Latch: shall be provided on lead/initial slide-swing panel. Panel will latch in place when closed. A lever handle shall be provided on each side of this sliding panel to unlock the door. Optional antimicrobial coating available for lever handle.
 - b. Constant Latching Flush Bolt: shall be provided for swing-out sidelite. Swing-out sidelite will thus be locked in place under normal conditions.
 - 3. Swing-out Feature: 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. Total weight limit per panel shall be 156 lbs. (70.7 kg).
 - a. Type 310 with Track: Panels can swing out at any point of slide travel with maximum 50 lbs. of force applied at the strike rail.
 - b. Type 310 Trackless: In full slide-open position, after 'SO' flush bolt has been released, panels can swing out with maximum 50 lbs. of force applied at the strike rail.
- F. JAMBS/FRAME: Shall be aluminum, 1 3/4" (44 mm) deep by 4" (102 mm) wide.

2.03 RELATED WORK REQUIREMENTS

GLASS AND GLAZING: Glass stops, glazing vinyl and setting blocks for field glazing as per Safety Glazing standard ANSI Z97.1.2.

2.04 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.
- 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.



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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. Gasketing material is high temperature silicone and is to be captured in extruded aluminum door panel. Floor Smoke Seal is high temperature brush. All seals to be factory installed to maintain UL 1784 rating.
2. Weatherstripping material captured in extruded aluminum door panel. 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 and formed aluminum corner 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. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of work. Do not start work until all negative conditions are corrected in a manner acceptable to the installer and manufacturer.

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.
- C. SMOKE CONTAINMENT BARRIER CONSTRUCTION: Install header and framing members in a bed of neutral cure silicone sealant to maintain compliance with NFPA 105. Coordinate installation with wall flashings and other components of construction.

3.03 CLEANING, ADJUSTMENT AND PROTECTION

- A. CLEANING: After installation, installer to take following steps:
 1. Remove temporary coverings and protection of adjacent work areas.
 2. Remove construction debris from construction site and legally dispose of debris.
 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.

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

END OF SECTION