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The Automatic Choice

ARCHITECTURAL SPECIFICATIONS

SLIDE DOORS – ICU/CCU AIRBORNE INFECTION CONTROL

Profiler®-ICU Self-Closing IDS
Smoke Rated Manual Isolation Door System
Single Slide with Floor Mounted Track

A22.1

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DIVISION 08 - OPENINGS

SECTION 08 42 43 – INTERMEDIATE / INTENSIVE / 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 specified manual door system for airborne infection control room, that has been manufactured, fabricated & installed to meet manufacturer's standards without defects, damage or failure.
- B. RELATED WORK: Openings: Division 08, applicable sections.

1.02 REFERENCES

- A. 2018 FACILITIES GUIDELINES INSTITUTE (FGI) FOR DESIGN AND CONSTRUCTION OF AIRBORNE INFECTION ISOLATION ROOMS (AIIR) IN HEALTHCARE FACILITIES(FGI): Ref: A2.1-7.2.2.3 (2)(a)(i) Minimum Slide Door Opening Width
- B. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.
- C. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) 101: Dissimilar Materials.
- D. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z97.1: Safety Glazing Materials Used in Buildings.
- E. AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - 1. ASTM B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
 - 2. ASTM E283-04: (Air Infiltration) Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- F. NATIONAL FIRE PROTECTION ASSOCIATION:
 - 1. NFPA 101: Code for Safety to Life from Fire in Buildings & Structures.
 - 2. NFPA 105: Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives.
- G. UNDERWRITERS LABORATORIES, INC. (USA & CANADA) (UL) 1784: Air Leakage Test of Door Assemblies
- H. INTERTEK, WARNOCK HERSEY (ETL): Testing Laboratory and Certification Agency joined with ETL SEMKO

1.03 SUBMITTALS

- A. SHOP DRAWINGS & PRODUCT DATA: Submit drawings and product data showing layout, profiles, product components including anchorage, accessories, finish and glazing details (where required).
- B. CLOSEOUT SUBMITTALS: Submit Owner's Manual & Warranty document as specified herein. Submit AAADM inspection compliance form completed and signed by certified AAADM inspector prior to doors being placed in operation as proof of compliance with ANSI A156.38.

1.04 QUALITY ASSURANCE

- A. INSTALLERS QUALIFICATIONS: Installer experienced to perform work of this section who has specialized in the installation of work like 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/critical care doors of the type required for this project. Manufacturer to provide field service representation during installation, approving acceptable installer and approving application method.
- C. **CERTIFICATIONS:** Manual sliding door systems to be certified in accordance with the following standards:
1. NFPA 101: Code for Safety to Life from Fire in Buildings & Structures.
 2. NFPA 105: Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives.
 3. ETL LISTED AIR INFILTRATION RATING: Units tested and certified by Intertek to be in compliance with ASTM E283-04 and UL 1784:
 - a. Maximum leakage rate at ambient temperature: 3.00 CFM/ft² of opening at 0.3 in. of water.
 - b. Maximum leakage rate at 400° F: 3.00 CFM/ft² of opening at 0.3 in. of water.
- D. **FGI GUIDELINES COMPLIANCE:** A2.1-7.2.2.3 (2)(a)(i) 45.5" Minimum Door Opening Width
- E. **OPENING FORCE REQUIREMENTS:** Standard slide panels glazed with ¼" tempered glass can be slid open with 8-12 lbs. of force after positive latch released.
1. Breakaway Requirements: Slide-swing panels shall swing out 90° from any position of slide movement (after positive latching released) and require no more than 50 lbf. (222 N) of force applied at the strike stile to open.
 2. Units are UL listed as an exit way and are compliant with NFPA 101.
- F. **HEADER CAPACITY:** Up to 350 lbs. (158.7 kg) per slide panel over spans up to 9'-0" (2743mm) without intermediate supports

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 airborne infection isolation room door(s) of type(s) and size(s) specified on plans and door schedule.

2.02 EQUIPMENT

- A. **MANUFACTURED DOOR UNITS:** Perimeter mounted units shall include header with roller track, carrier assemblies, framing jambs, sliding door panel, sidelite and accessories required for complete installation.



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Surface mounted units will not require sidelite. Units to provide minimum of 45 1/2" (1156mm) of clear slide opening width in compliance with 2018 FGI Guidelines for Airborne Infection Isolation Rooms (AIIR).

1. Configuration: Single Slide
 2. Mounting Type:
 - a. Perimeter mounted within rough opening or curtain wall.
 - b. Surface mounted onto face of finished wall.
 3. Door Type: Type 110: Slide-swing panel shall slide alongside of fixed sidelite or finished wall utilizing floor mounted guide.
- B. PROFILER® HEADER: Shall be slim 4" (102mm) deep by 6" (152mm) high, aluminum construction with extruded z-profile reinforcement for dead load and lateral strength. Header shall have removable face plate and shall mount flush to 4" framing jambs.
- C. CARRIER ASSEMBLIES AND HEADER ROLLER TRACK: Carrier assemblies shall support door panels with minimum four rollers per panel. Rollers will be steel, high quality ball bearing wheels 1-1/4" (32mm) diameter. Anti-Derailing shall be accomplished by means of a continuous aluminum extrusion full length of slide panel travel. Overhead header roller track shall be continuous aluminum, nylon covered, and replaceable.
- D. SLIDE-SWING PANEL AND SIDELITE: Shall be aluminum, 1 3/4" (44mm) deep with narrow stile construction and with perimeter seals. An intermediate, horizontal rail (muntin bar), 2 1/4" (57mm) wide, shall be furnished for safety and division of glass. Floor Seals to be field applied and adjusted from 1/8" to 1/2" above finished floor to required positive/negative pressure. Standard bottom rail shall be 4" (102mm) tall. Concealed guides to stabilize bottom of sliding panel. Sidelite shall be mounted on floor guide. Standard glazing prep to be for 1/4" (6mm) glass. Total weight limit per panel shall be 156 lbs. for UL listed slide-swing panel.
1. Swing-out Feature: panels can swing out 90° with maximum 50 lbs. of force applied at the strike rail. 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. Positive Latch: shall be provided on 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.
 3. Sliding Panel and Sidelite Options shall be:
 - a. Prep for glazing 5/16" (16mm) to 1 1/2" (38mm).
 - b. 6 1/2" (165mm) or 10" (254mm) bottom rail
- E. JAMBS/FRAME: Shall be aluminum. Jamb dimensions to be: 1 3/4" (44mm) deep by 4" (102mm) 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" (5mm) thickness.
 2. Structural Frame Sections: Minimum 1/8" (3mm) thickness.
 3. Structural Panel Sections: Commercial grade.
- B. FINISHES (for all exposed aluminum surfaces): Shall be one of the following:
1. 215-R1 Clear: Architectural Class 1 Clear Anodized Coating, AA-MI2C22A41.
 2. 313-R1 Dark Bronze, 312-R1 Light Bronze, or 315-R1 Black: Architectural Class 1 Anodized Coating, AA-MI2C22A44.



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3. Special Paint Coating: Color as selected.
4. Antimicrobial coating.

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 to be captured in extruded aluminum door panel. Floor seal is brush material and sent loose. Perimeter seals to be factory installed to maintain ASTM E283-04 and UL 1784 rating.
2. 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 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 protection of adjacent work areas. Remove construction debris from construction site and legally dispose of debris.
 2. Repair or replace damaged installed products. 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