



Horton Automatics World Headquarters
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The Automatic Choice

ARCHITECTURAL SPECIFICATIONS

SLIDE DOORS – ICU/CCU AIRBORNE INFECTION CONTROL

Profiler® Series 2000-IDS-2
Smoke Rated Automatic Isolation Door System
Linear or Belt Drive, Track or Trackless Guide

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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 automatic 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:
 - 1. Openings: Division 08, applicable sections.
 - 2. Electrical: Division 26, 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 ASSOCIATION OF AUTOMATIC DOOR MANUFACTURERS (AAADM).
- D. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA) 101: Dissimilar Materials.
- E. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
 - 1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
 - 2. ANSI A156.38: Low Energy Power Operated Sliding Doors section
- F. 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
- G. 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.
- H. UNDERWRITERS LABORATORIES, INC. (USA & CANADA)
 - 1. UL 325: Electrical Door, Drapery, Gate, Louver, and Window Operators and Systems.
 - 2. UL 1784 Air Leakage Test of Door Assemblies
- I. 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).



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- 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 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/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: Automatic sliding door systems to be certified in accordance with the following standards:
1. ANSI A156.38: Low Energy Power Operated Sliding Doors section
 2. NFPA 101: Code for Safety to Life from Fire in Buildings & Structures.
 3. NFPA 105: Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives.
 4. ETL Listed: Tested to UL 325 and UL 1784 Standard
 5. 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: If power fails, slide panels can be manually slid open with no more than 15 lbf (222 N) of force. Continuous automatic operation would require unit to be powered by facility provided UPS (Uninterrupted Power Source).
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.
 - a. Exception: Type 310 Trackless must be in full-open position with flush bolt released before panels can swing out.
 2. Units with floor mounted track and breakaway feature are UL listed as an exit way and are compliant with NFPA 101.
- F. CLOSING FORCE REQUIREMENTS: Maximum force required to prevent sliding panel from closing = 28 lbf. (124.5 N) Adjustable Reversing Circuit will reopen door unit if closing path is obstructed.
- G. 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.



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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 operator, header with roller track, carrier assemblies, framing jambs, sliding door panel, sidelite, activation, safety devices and accessories required for complete installation. Surface mounted units will not require sidelite.
 - 1. Perimeter or Surface Mounted Type 110: Slide-swing panel 'SX' shall slide alongside of fixed sidelite 'O' (or wall 'P') utilizing floor mounted guide.
 - 2. Perimeter Mounted Type 310 Trackless: Slide-Swing panel 'SX' shall slide along interior of swingout sidelite 'SO' utilizing trackless floor system. No floor track/guide or recess required.
- B. OPERATOR: shall be mounted and concealed within the header and will be either:
 - 1. Series 2000 Linear Drive: Operation shall be accomplished through a 1/8 HP DC permanent magnet working with a threadless, induction hardened stainless steel 1/2" (13mm) diameter linear drive shaft. Maximum current draw shall not exceed 3.15 amps. A linear travel block describes a helical path along the rotating shaft utilizing six aircraft quality ball bearings acting as an integral clutch. Linear drive shaft shall be self lubricating by means of integral oiler located in the travel block.
 - 2. Series 2000B Belt Drive: Operating force shall be accomplished through a 1/8 HP DC permanent magnet motor with worm gear transmission and 1800 RPM working with drive belt, attached door hangers, and idler pulley. Maximum current draw shall not exceed 3.15 amps. Idler pulley to be reinforced, metallic material. Drive belt to be steel reinforced nylon, 1/2" (13mm) wide.
 - 3. Microprocessor-based control shall include a 40-character alphanumeric display to provide ease of adjustment and comprehensive diagnostics, including error and alarm logging. All speeds, forces and time delays shall be independently adjustable. Actuating and safety sensors that provide self-monitoring are supported. Supported operating modes include 2-Way Automatic / 1-Way Exit, Full / Reduced Door Opening, and Day / Night Operation.
 - 4. On/Off Switch shall be supplied. When switched OFF, unit reverts to free manual operation (likewise during electrical power failure).
 - 5. Positive Latch: Fail-Safe Autolock automatically locks slide function of door when in closed position for UL1784 compliance. In the event of power-failure the lock is disengaged. Additional power supply for autolock not acceptable.
- C. MONITORED POWER FAIL-CLOSE: shall close door in event of power failure.
- D. 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 for service and adjustment of operator and controls. Header mounts flush to 4" framing jambs.



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- E. 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.
- F. SLIDE-SWING PANEL AND SWING-OUT SIDELITE (Type 310 Trackless): 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. 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. Constant Latching Flush Bolt shall be provided for swing-out sidelite. Swing-out sidelite will thus be locked in place under normal conditions.
 - a. Swing-out Feature: In full slide-open position, after 'SO' flush bolt has been released, 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.
- G. FIXED SIDELITE (Type 110): Shall be mounted on floor guide.
- H. JAMBS/FRAME: Shall be aluminum. Jamb dimensions to be: 1 3/4" (44mm) deep by 4" (102mm) wide.

2.03 RELATED EQUIPMENT

- A. "KNOWING ACT" ACTIVATING DEVICE: Shall be 24 VDC, class II circuit and shall be adjusted and installed in compliance with ANSI A156.38. Device shall actuate door open; door closes after time delay expires and slide opening is clear. Activating device for shall be mounted on each side of the opening for 2-way traffic. For perimeter mounted units, activating device shall be jamb mounted. For surface mounted units, activating device shall be jamb mounted at exterior and wall mounted at interior. Activating device shall be one of the following:
1. Push plate: shall be momentary contact microswitch assembly. Optional latch relay action (push-to-open/push-to-close). Assembly to include 1 1/2" x 4 1/2" (38mm x 121mm) stainless steel plain face plate with no engraving. Optional "Press To Open" engraving.
 2. Touchless sensor: shall be active infrared device and shall provide hands free operation with detection range of 6" to 30" (152mm to 762mm). Stainless steel face plate shall be 1 11/16" x 4 1/2" (43mm x 114mm).
- B. SAFETY DEVICE: Hold-open beams: Two pulsed infrared photoelectric beams to be mounted in vertical rail of sidelite and in jamb. Sender/receiver arrangement parallels door opening and shall prevent door from closing while door way is occupied.

2.04 RELATED WORK REQUIREMENTS

- A. ELECTRICAL: 120 VAC, 50/60 cycle, single phase, 20 amp service routed to header. Non-North American voltages can be 220 or 240 VAC 50/60 cycle (operator must have 240 volt power supply).
- B. GLASS AND GLAZING: Glass stops, glazing vinyl and setting blocks for field glazing as per Safety Glazing standard ANSI Z97.1.2, as well as able to maintain ASTM E283-04 and UL 1784 rating. Contractor to coordinate acquisition of glass in thickness and type in accordance with manufacturer's recommendations for prescribed design.

2.05 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.



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3. Structural Panel Sections: Commercial grade.

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

1. 215-R1 Clear: Arch. 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.
3. Special Paint Coating: Color as selected.
4. Clad with stainless steel or muntz metal (brass alloy): #7 or #4 brushed finish.

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