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## ARCHITECTURAL SPECS

### AUTOMATIC SLIDING DOORS

**Profiler® Series 2000B Elite**  
Sliding Door System with Electric  
Belt Drive Operator

**A6.7**

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#### **DIVISION 08 - OPENINGS** **SECTION 08 42 29.23 SLIDING AUTOMATIC 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 automatic aluminum door system, as specified, that has been manufactured, fabricated and installed as per manufacturer's criteria 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.
  - 4. Electrical: Division 26, applicable sections.

##### **1.02 REFERENCES**

- A. AMERICAN ASSOCIATION OF AUTOMATIC DOOR MANUFACTURERS (AAADM).
- B. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
  - 1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Methods of Test.
  - 2. ANSI A156.10 - 2011: For Power Operated Pedestrian Doors; Sliding Doors section.
  - 3. ANSI A156.5: Standard for Auxiliary Locks and Associated Products
- C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) B221: Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
- D. BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL (BOCA)
- E. INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS / UNIFORM BUILDING CODE (ICBO/UBC)
- F. INTERNATIONAL CODE COUNCIL / INTERNATIONAL BUILDING CODE (ICC/IBC)
- G. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101: Safety to Life from Fire in Buildings & Structures.
- H. THE ALUMINUM ASSOCIATION (AA) Aluminum Finishes Manual.
- I. INTERTEK, WARNOCK HERSEY (ETL): Testing Laboratory and Certification Agency joined with ETL SEMKO
- J. UNDERWRITERS LABORATORY, INC. (USA & CANADA) UL 325: Electrical Door, Drapery, Gate, Louver, and Window Operators and Systems.

##### **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 the following:
  - 1. Owner's Manual & Warranty document as specified herein.
  - 2. AAADM inspection compliance form completed and signed by certified AAADM inspector prior to doors being placed in operation as proof of compliance with ANSI A156.10 - 2011.



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#### 1.04 QUALITY ASSURANCE AND PERFORMANCE REQUIREMENTS

- A. **INSTALLERS QUALIFICATIONS:** Installer shall be factory trained, certified by AAADM, and experienced to perform work of this section.
- B. **MANUFACTURER'S QUALIFICATIONS:** Manufacturer to have minimum (5) five years successful experience in the fabrication of automatic 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. **CERTIFICATIONS:** Automatic sliding door systems and options shall be factory certified to meet performance design criteria in accordance with the following standards:
1. ANSI A156.10 - 2011: For Power Operated Pedestrian Doors; Sliding Doors section.
  2. NFPA 101: Code for Safety to Life from Fire in Buildings & Structures.
  3. ETL Listed: Tested to UL 325 Standard
  4. BOCA: Means of Egress, Power Operated Doors
  5. ICBO/UBC: Egress Through Lobbies
  6. ICC/IBC: Egress Section
- D. **OPERATING RANGE:** -30° F to 130° F (-34° C to 54° C)
- E. **OPENING FORCE REQUIREMENTS FOR EMERGENCY EGRESS:**
1. Slide-swing panels shall require no more than 50 lbf. (222 N) of force to swing open. Slide-swing panels shall be capable of swinging out 90° from any position of slide movement.
  2. Slide-swing panels and swing-out sidelites shall have torsion spring designed to re-close panel if pushed open in the direction of egress.
  3. If power fails, slide panels can be manually slid open with no more than 15 lbf (222 N) of force.
  4. Units are ETL 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:** Header shall be capable of supporting:
1. Biparting: Up to 250 lbs. (113.4 kg) per slide panel over spans up to 16'-0" (4877mm) without intermediate supports.
  2. Single Slide: 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 limited to, 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 automatic sliding door(s) of type(s) and size(s) specified on plans and door schedule.

##### 2.02 EQUIPMENT

- A. MANUFACTURED DOOR UNITS: Shall include operator, header with roller track, carrier assemblies, framing, sliding door panel(s), sidelite(s), activation, safety devices and accessories required for complete installation.
  - 1. Configuration: Single Slide or Biparting
  - 2. Mounting Type:
    - a. Perimeter mounted within rough opening with sliding panel(s) sliding along sidelite.
    - b. Surface mounted with sliding panel(s) sliding along wall eliminating need for sidelite.
  - 3. Door Type:
    - a. Type 010: Sliding panel(s) 'X' shall slide along interior side.
    - b. Type 110: Slide-swing panel(s) 'SX' shall slide along exterior side.
    - c. Type 310: Slide-swing panel(s) 'SX' shall slide along interior side. Unit has Swing-out sidelite 'SO'.
    - e. SpaceSaver™: Dual single slide units with common sidelite. Slide-swing panel 'SX' slides along exterior of middle sidelite 'O' from one direction. Sliding panel 'X' slides along interior side from opposite direction.
- B. OPERATOR: The Electric Operating Mechanism shall be Profiler® Series 2000B Elite Belt Drive. Maximum current draw shall not exceed 3.15 amps. The operator shall be mounted and concealed within the header.
  - 1. 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. Drive belt to be steel reinforced nylon, 1/2" (13 mm) wide. Idler pulley to be reinforced, metallic material.
  - 2. Master Control shall be 16 bit microprocessor controller with dual on-board seven-segment alphanumeric diagnostic display and position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position and speed. The control shall have minimum of 28 programmable parameters including the following functions as required by ANSI A156.10 - 2011:
    - a. Adjustable opening and closing speeds.
    - b. Adjustable back-check and latching.
    - c. Adjustable braking.
    - d. Adjustable hold-open time between 1 to 30 seconds.
    - e. Adjustable Reversing Circuit will reopen door unit if closing path is obstructed.
    - f. Separate day and night modes of operation with security over-ride.
  - 3. Finger Safety: Strike rail of sliding panel will stop short of adjacent sidelite; resulting opening is net slide.
  - 4. On/Off Switch shall be supplied. When switched OFF, unit reverts to free manual operation (likewise during electrical power failure).



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#### C. SECURITY AND SAFETY POWER FAIL OPTIONS:

1. Automatic lock: Automatically locks slide function of door when in closed position. Additional power supply for autolock not acceptable.
  - a. Autolock Fail Secure: If power fails the lock engages.
  - b. Autolock Fail Safe: If power fails the lock disengages.
2. Monitored Power Fail Options (battery back-up):
  - a. Software Selectable Power Fail Open: If power fails the door slides open.
  - b. Software Selectable Power Fail Close: If power fails the door slides closed.

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.

1. Type 410 units will require 6" x 6" header.
2. SpaceSaver™ headers shall be combined depth of 8" (203mm) with removable face plate for each.

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" (32 mm) 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. SLIDING PANEL(S) AND SIDELITE(S): Shall be aluminum, 1-3/4" (44 mm) deep with narrow stile rails. An intermediate, horizontal rail (muntin bar), 2 1/4" (57 mm) wide, shall be furnished for safety and division of glass (optional on 010 units). Standard bottom rail shall be 4" (102mm) tall. Sliding panels shall have concealed bottom guides to stabilize slide travel.

1. Weather-stripping: Along perimeter of sliding panel(s) and swing-out sidelite(s). Weatherstripping material captured in extruded aluminum door panel. Surface applied self-adhesive weatherstripping not acceptable. Adjustable spring-loaded double astragal weather-stripping at lead edge, double mohair at interlock rails
2. Standard glazing prep to be for 1/4" (6 mm) glass.
3. 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. Note: Medium stile construction will reduce slide opening.
  - b. Wide stile construction: 5" (127mm) wide vertical rails with 6 1/2" (165mm) tall bottom rail. Note: Wide stile construction will reduce slide opening.
  - c. Surface applied push bar 1 1/2" (32mm) wide in lieu of standard muntin bar.
  - d. Custom horizontal muntins from 1/2" (13mm) to 10" (254mm) wide.
  - e. Custom bottom rails up to 10" (254mm) tall.
  - f. Additional and/or extra wide sidelites of size and type indicated.
  - g. Recessed sidelite and track and non-threshold application.
  - h. Prep for glazing 5/16" (16mm) to 1" (25mm).

G. BREAKOUT PANELS: Slide-swing panels can swing out min.90° from any position of slide movement and require no more than 50 lbf. (222 N) of force applied at the lock stile to open. Slide-swing panels and swing-out sidelites shall utilize spring loaded ball detent.

1. Slide-swing panels and swing-out sidelites shall have torsion spring designed to re-close panel if pushed open in the direction of egress.
2. 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 during emergency egress.
3. Slide-swing panels shall include intermediate horizontal rail.
4. Units with breakout feature are ETL listed as an exit away and are compliant with NFPA 101.



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H. JAMBS/FRAME: Shall be aluminum. Jamb dimensions to be:

1. 1 3/4" (44mm) deep by 4" (102mm) wide for Types 010, 110, & 310. Optional jambs include:
  - a. 1 3/4" (44mm) deep by 4 1/2" (114mm) wide.
  - b. 1 3/4" (44mm) deep by 6" (152mm) wide. Maximum height: 8'-8".
  - c. 2" (51mm) deep by 6" (152mm) wide. Maximum height: 8'-8".
  - d. 4" (102mm) square. Maximum height: 8'-8".
2. 1 3/4" (44mm) deep by 6" (152mm) wide for Type 410.
3. 1 3/4" (44mm) deep by 8" (152mm) wide for SpaceSaver™.
4. Frame Option: Transom of size and type indicated, mounted on header

I. THRESHOLD: Shall be aluminum, 1/2" (25 mm) tall by 4" (102 mm) wide. Optional 7" (178 mm) wide.

J. HARDWARE: ANSI A156.5, Grade 1, 2-Point Locking provided and installed in strike rail shall include:

1. Hookbolt Latch, 5/8" laminated stainless steel, latching into jamb or adjacent strike rail.
2. 3/8" hex-bolt into breakout carrier frame.
3. Keyed 1 5/32" (29 mm) Cylinder mounted on exterior side with 31/32" (25 mm) backset
4. Thumbturn mounted on interior side.
5. Hardware Options:
  - a. 3-Point locking for biparting doors
  - b. Flush Panic Exit Device recessed in 6 1/2" muntin bar for door types 110 and 310.
  - c. Surface mounted Panic Exit Device for door type 310.

### 2.03 RELATED EQUIPMENT

BASIC SENSOR SYSTEM: Shall be 24 VDC, class II circuit and shall be adjusted and installed in compliance with ANSI A156.10. System shall include the following:

- A. ACTIVATION SENSORS: Microwave or active infrared sensor shall be header-mounted each side of door unit for detection of traffic from each direction.
- B. THRESHOLD PRESENCE SENSORS:
  1. Header mounted sensors shall provide active infrared presence detection on each side of the door unit and shall remain active throughout the entire door opening and closing cycle.
  2. Hold-open beams: Two pulsed infrared photoelectric beams to be mounted in vertical rails of sidelite or in jambs. Sender/receiver arrangement parallels door opening.

### 2.04 RELATED WORK REQUIREMENTS

- A. ELECTRICAL: 120 VAC, 50/60 cycle, single phase, dedicated 20 amp circuit per operator. Non-North American voltages can be 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. 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" (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 Medium Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
4. 311-R1 Light Bronze: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
5. Champagne: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
6. Gold: Arch. Class 1 Anodized Coating, AA-MI2C22A44.
7. Paint Coating:
  - a. Powder Coat: 100% V.O.C. free fluoropolymer resin-based. Standard and custom colors available including wood grain finish.
  - b. Wet Paint: Standard and custom colors available.
8. Clad with stainless steel or muntz metal (brass alloy): #7 mirror finish 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.
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 with screws and formed alum. corner brackets.

E. OPERATOR CONSTRUCTION: Electromechanical, modular type construction.

### PART III - EXECUTION

#### 3.01 EXAMINATION

SITE VERIFICATION OF CONDITIONS: Installer must verify that base conditions 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.

#### 3.02 INSTALLATION

- A. GENERAL: Installer shall be factory trained, certified by AAADM, and experienced to perform work of this section. 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. Provide weather-tight construction.
- B. ELECTRICAL: General or electrical contractor to install all wiring to operator on a separate circuit breaker routed into header. General or electrical contractor also to install all necessary power and low voltage wiring for proper operation of associated security systems.

#### 3.03 CLEANING, ADJUSTMENT AND PROTECTION

- A. CLEANING: After installation, installer will clean product surfaces and lubricate operating equipment for optimum condition and safety. Advise contractor of precautions required through the remainder of the construction period, to ensure that doors will be without damage or deterioration at the time of acceptance.
- B. ADJUSTMENT: AAADM certified technician to inspect and adjust installation. Comply with ANSI A156.10-2011.

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

**END OF SECTION**