

## SECTION 08461 - SLIDING AUTOMATIC ENTRANCE DOOR

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes automatic entrance door system operating as follows:
  - 1. Bi-Parting sliding operation.

## 1.3 NATIONAL ACCOUNT

- A. CVS/Pharmacy has entered into a national account agreement with Stanley Access Technologies for furnishing the telescoping door package specified in this section. Complete installation shall be by the Contractor. For pricing quotations, placing orders and further information, call Stanley Access Technologies at (860) 679-6435.

## 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is an authorized representative of the automatic entrance door manufacturer for both installation and maintenance of units required for this Project.
  - 1. Maintenance Proximity: Not more than two (2) hours' normal travel time from Installer's place of business to Project site.
- B. Source Limitations: Obtain automatic entrance doors through manufacturer specified.
- C. Welding Standards: Comply with AWS D1.2, "Structural Welding Code--Aluminum."
- D. ANSI/BHMA Standard: ANSI/BHMA A156.10, "Power Operated Pedestrian Doors."
- E. UL Standard: Provide power door operators that comply with UL 325.
- F. Emergency Exit Door Requirements: Comply with requirements of authorities having jurisdiction for automatic entrance doors serving as a required means of egress.

## 1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify automatic entrance door opening by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating automatic entrance doors without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

## 1.6 COORDINATION

- A. Manufacturer shall provide product data and shop drawings to CVS for coordinating hardware and security requirements with electrical interface of door systems prior to installation.

## 1.7 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of the automatic entrance door system that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
  - 1. Lateral deflection of glass lite edges in excess of 1/175 of their length or 3/4 inch, whichever is less.
  - 2. Excessive air leakage.
  - 3. Faulty operation of operators and hardware.
  - 4. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- C. Warranty Period: One (1) year from date of Substantial Completion.

## 1.8 MAINTENANCE SERVICE

- A. Maintenance: Beginning at Substantial Completion, provide twelve (12) months' full maintenance by skilled employees of automatic entrance door Installer. Include quarterly planned and preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door operation at rated speed and capacity. Provide parts and supplies as used in the manufacture and installation of original equipment.
1. Engage an inspector certified by the American Association of Automatic Door Manufacturers to perform a safety inspection after each adjustment or repair, and at the end of the maintenance period. Submit the completed inspection form to Owner.
  2. Perform maintenance, including emergency callback service, during normal working hours.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Manufacturer: Subject to compliance with requirements, provide one of the following:
1. For 14'-0" door openings use Stanley Access Technologies; Div. of The Stanley Works; Product: Dura-Glide Series 3000 Bi-Part.
  2. For 8'-7 1/2" door openings use Stanley Access Technologies; Div. of The Stanley Works; Product: Dura-Glide Series 5300 Telescopic Automatic Sliding Entrance System.

### 2.2 RELATED MATERIALS

- A. Glazing: As specified in Division 8 Section "Glazing."
- B. Sealants and Joint Fillers: Refer to Division 7 Section "Joint Sealants" for joints at perimeter of entrance system.
- C. Nonmetallic, Shrinkage-Resistant Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout; complying with ASTM C 1107; of consistency suitable for application.
- D. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements, except containing no asbestos; formulated for 30-mil thickness per coat.

### 2.3 AUTOMATIC ENTRANCE DOOR SYSTEMS

- A. General: Provide manufacturer's standard automatic entrance door system, complete with doors, framing, operators, controls, activation devices, safety devices, and accessories as indicated.

- B. Provide door operators; activation and safety devices; and hardware, as standard with the manufacturer, for the Owner for the door specified.
  - 1. Refer to Division 8 Section "Door Hardware" for requirements for hardware items other than those to be provided by door manufacturer.

## 2.4 RELATED COMPONENTS

- A. Brackets and Reinforcements: Manufacturer's standard; compatible with adjacent materials. Provide nonstaining, nonferrous shims for aligning system components.
- B. Fasteners and Accessories: Manufacturer's standard corrosion resistant, nonstaining, nonbleeding; compatible with adjacent materials.
  - 1. Reinforcement: Reinforce members as required to retain fastener threads.
  - 2. Exposed Fasteners: Do not use exposed fasteners, except for hardware application. For hardware application, use countersunk Phillips flat-head machine screws finished to match framing members or hardware being fastened, unless otherwise indicated.
- C. Signage: Comply with ANSI/BHMA A156.10.

## 2.5 FABRICATION

- A. General: Fabricate automatic entrance door system components to designs, sizes, and thicknesses specified and to comply with indicated standards.
- B. Prefabrication: Provide automatic entrance doors as prefabricated assemblies. Complete fabrication, assembly, finishing, hardware application, and other work before shipment to Project site.
  - 1. Do not drill and tap for surface-mounted hardware items until time of installation at Project site.
  - 2. Perform fabrication operations, including cutting, fitting, forming, drilling, and grinding of metalwork in manner that prevents damage to exposed finish surfaces. For hardware, perform these operations before applying finishes.
  - 3. Form shapes with sharp profiles, straight and free of defects or deformations, before finishing.
  - 4. Prepare components to receive concealed fasteners and anchor and connection devices.
  - 5. Fabricate components with accurately fitted joints with ends coped or mitered to produce hairline joints free of burrs and distortion.
- C. Welding: Weld components to comply with referenced AWS standard. Weld before finishing components to greatest extent possible. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

- D. Glazing Channels: Provide minimum clearances for thickness and type of glass indicated according to GANA's "Glazing Manual."
- E. Metal Protection: Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
- F. Hardware: Install hardware, except surface-mounted hardware, at fabrication plant. Remove only as required for final finishing operation and for delivery to and installation at Project site.
- G. Doors: Fabricate doors in profiles indicated. Reinforce as required to support imposed loads and for installing hardware. Factory assemble door and frame units.
  - 1. Exterior Doors: Provide compression weather stripping at fixed stops. At locations without fixed stops, provide sliding weather stripping retained in adjustable strip mortised into door edge.
- H. Framing: Fabricate tubular and channel frame assemblies in configuration indicated, with welded or mechanical joints according to manufacturer's standards. Provide subframes and reinforcement of types indicated or, if not indicated, as needed for a complete system to support required loads.
  - 1. Exterior Framing: Fabricate components to drain water passing joints and condensation and moisture occurring or migrating within the system to the exterior. Provide anchorage and alignment brackets for concealed support of assembly from the building structure. Allow for thermal expansion of exterior units.

## 2.6 ALUMINUM FINISH

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish aluminum automatic entrance door system components to match adjacent aluminum storefront.
  - 1. Provide Valspar Ind. coating with fluopan finish in color specified on drawings.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of automatic entrance doors.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Templates and Diagrams: Furnish templates, diagrams, and other data to fabricators and installers of related work, as necessary for coordinating automatic entrance door installation.

### 3.3 INSTALLATION

- A. General: Comply with automatic entrance door manufacturer's written installation instructions, unless more stringent requirements are indicated. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure nonmovement joints. Seal joints watertight.
- B. Metal Protection: Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Entrances: Install entrances plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place. Lubricate operating hardware and other moving parts.
  - 1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
  - 2. Set tracks, header assemblies, operating brackets, and guides level and true to location with anchorage for permanent support.
  - 3. Install components to drain water passing joints and condensation and moisture occurring or migrating within the system to the exterior.
- D. Activation and Safety Devices: Install control devices and wiring, including connections to door operators, for complete installation of both interior and exterior motion detectors at sliding automatic entrance door.
- E. Glazing: Comply with installation requirements in Division 8 Section "Glazing,".
- F. Sealants: Comply with requirements in Division 7 Section "Joint Sealants" for installing sealants, fillers, and gaskets.
  - 1. Set continuous sill members and flashing in a full sealant bed to provide weathertight construction, unless otherwise indicated.
  - 2. Seal frame perimeter with sealant to provide weathertight construction.

### 3.4 ADJUSTING

- A. Adjust door operators, controls, and hardware for smooth and safe operation and for weathertight closure.

- B. Readjust door operators and controls after repeated operation of completed installation equivalent to three (3) days' use by normal traffic (100 to 300 cycles). Lubricate hardware, operating equipment, and other moving parts.

### 3.5 CLEANING AND PROTECTION

- A. Clean glass and aluminum surfaces promptly after installation. Remove excess glazing and sealant compounds, dirt, and other substances. Repair damaged finish to match original finish.
  - 1. Comply with requirements in Division 8 Section "Glazing" for cleaning and maintaining glass.
- B. Provide final protection and maintain conditions, including limiting construction traffic, that ensure automatic entrance doors are without damage or deterioration at time of Substantial Completion.

### 3.6 DEMONSTRATION

- A. Engage manufacturer's inspector certified by the American Association of Automatic Door Manufacturers to train Owner's maintenance personnel to adjust, operate, and maintain automatic entrance doors as specified below:
  - 1. Train Owner's maintenance personnel on procedures and schedules for starting up and shutting down, troubleshooting, servicing, complying with safety requirements, and maintaining equipment and schedules.
  - 2. Review data in maintenance manuals. Refer to Division 1 Section.
  - 3. Schedule training with Owner with at least seven days' (7) advance notice.

END OF SECTION 08461

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