SECTION 08 42 33.23
AUTOMATIC REVOLVING DOOR ENTRANCES

Specifier Note: This specification document shall serve as a guide specification for typical projects where the CJ Rush Series 1500A automatic revolving door entrance will be the basis of design. Specification must be reviewed for applicability on a per project basis. Specification is not appropriate for projects where a wind force and/or impact rating are required. The specifier is directed to select appropriate options included herein. Consult with the local authorized CJ rush distributor when options, not specified, are required. See last page of this document for a summary of unspecified options.

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

Specifier Note: Modify paragraph below to suit project requirements; 3-Wing and 4-Wing configurations available. Coordinate with other sections.

A. This Section includes conventional, circular, revolving door entrances of the following configurations and operations:
   1. **[Three] [Four]** wing, automatic.

B. Related Sections:
   1. Division 3 Sections for forming and grouting as required for installation of recessed revolving door entrance components.
   2. Division 7 Sections for caulking to the extent not specified in this section.
   3. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for entrances furnished separately in Division 8 Section.
   4. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.
   5. Division 26 Sections for electrical connections including conduit and wiring for power to, and control of, revolving door entrances.

1.3 REFERENCES

A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

B. American National Standards Institute (ANSI) / Builders' Hardware Manufacturers Association (BHMA):
   1. ANSI/BHMA A156.27: Standard for Power and Manual Operated Revolving Pedestrian Doors.
   2. ANSI/BHMA A156.5: Standard for Auxiliary Locks and Associated Products.
   3. ANSI Z97.1: Standard for Safety Glazing Materials Used In Buildings - Safety Performance Specifications And Methods Of Test.

C. Consumer Product Safety Commission (CPSC):

1. CPSC 16 CFR 1201: Safety Standard for Architectural Glazing Materials.

D. Canadian General Standards Board:
1. CAN/CGSB 19.13 M87 – Sealing Compound, One Component, Elastomeric, Chemical curing.
2. CAN/CGSB 12.3 M91 – Flat, Clear float glass.
3. CAN/CGSB 12.1 for tempered and laminate glass.

E. American Society for Testing and Materials (ASTM):
1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
2. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
3. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
4. ASTM A276 - Standard Specification for Stainless Steel Bars and Shapes.
5. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

F. American Welding Society (AWS):
1. AWS A5.10/A5.10M - Specification For Bare Aluminum And Aluminum-Alloy Welding Electrodes And Rods.

G. American Association of Automatic Door Manufacturers (AAADM):

H. National Fire Protection Association (NFPA):
1. NFPA 101 – Life Safety Code.
2. NFPA 70 – National Electric Code.

I. National Association of Architectural Metal Manufacturers (NAAMM):
1. Metal Finishes Manual for Architectural and Metal Products.

Specifier Note: Modify paragraph below to suit project requirements.
- **Select appropriate standard finish from options below.**
- **Make multiple selections as required, schedule accordingly.**
- **See last page of this document for a summary of unspecified finish options.**
- **Coordinate with other sections.**

J. American Architectural Manufacturers Association (AAMA):
1. [AAMA 606.1 – Integral Color Anodic Finishes for Architectural Aluminum.]
2. [AAMA 607.1 - Clear Anodic Finishes for Architectural Aluminum.]
3. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum.
4. AAMA 701 Voluntary Specification for Pile Weather-stripping and Replaceable Fenestration Weather seals.

1.4 PERFORMANCE REQUIREMENTS

A. General: Provide revolving entrance door assemblies that have the following capability based on testing manufacturer's standard units similar to those indicated for this Project:

Note to Specifier: Modify paragraph below in accordance with the following:
- **4-Wing Entrances: Leakage rate of 1.0 cfm/sq ft (5.0 L/s x sq. m) @ 1.57 lbf/sq. ft. (75 Pa)**
- **3-Wing Entrances: Leakage rate of 2.4 cfm/sq ft (12.2 L/s x sq. m) @ 1.57 lbf/sq. ft. (75 Pa)**

B. Air Infiltration: Maximum air leakage through fixed glazing and framing areas of **1.0 cfm/sq. ft. (5.0 L/s x sq. m)** of fixed entrance system area when tested according to ASTM E 283 at a minimum static-air-pressure difference of 1.57 lbf/sq. ft. (75 Pa).

C. Operating Range: Minus 20 deg F to plus 130 deg F (Minus 29 deg C to plus 54 deg C).

1.5 SUBMITTALS

A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.

B. Shop Drawings: Include plans, elevations, sections, details, hardware mounting heights, schedule of hardware, and attachments to other work.

C. Color Samples for selection of factory-applied color finishes.

D. Closeout Submittals:
1. Owner’s Manual.
2. Warranties.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative, with certificate issued by AAADM, who is trained for installation and maintenance of units required for this Project.

B. Manufacturer Qualifications: A qualified manufacturer having been in revolving door manufacturing for a minimum of 10 years in North America.

C. Manufacturer shall have in place a national service dispatch center providing 24 hours a day, 7 days a week, emergency call back service.

D. Certifications: Revolving door entrance systems shall be certified by the manufacturer to meet performance design criteria in accordance with the following standards:
1. ANSI/BHMA A156.27.
2. NFPA 101.

E. Source Limitations: Obtain revolving entrance door assemblies through one source from a single manufacturer.

F. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of revolving entrance door assemblies and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."

G. Welding: Qualify procedures and personnel according to AWS D1.2, "Structural Welding Code--Aluminum."

H. Means-of-Egress Requirements: Comply with requirements of authorities having jurisdiction for revolving entrance doors serving as a component of a means of egress, including capability of collapsing into a book-fold position, minimum exit width, maximum turning speed, and maximum force required to collapse door wings.

I. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201. Subject to compliance with requirements, permanently mark safety glass with certification label of the Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction.

1.7 PROJECT CONDITIONS

A. Field Measurements: General Contractor shall verify openings to receive revolving door assemblies by field measurements before fabrication and indicate measurements on Shop Drawings.

B. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight and secure; substrates to be of proper dimension and material.

C. Other trades: General Contractor shall advise of any inadequate conditions or equipment.

1.8 COORDINATION

A. Templates: Obtain and distribute, to parties involved, templates for doors, frames, and other work specified to be factory prepared for installing revolving entrance doors. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing revolving entrance doors to comply with indicated requirements.

B. Electrical System Roughing-in: Coordinate layout and installation of revolving entrance door assemblies with connections to power supplies.

C. Coordinate size and location of recesses in floor construction for recessed, and collapsing mechanisms, including anchorages for frames and supports. Furnish setting drawings, templates, and directions for installing anchorages that are to be embedded into concrete. Deliver such items to Project site in time for installation. Concrete, reinforcement, and formwork requirements are specified in Division 3.

D. System Integration: Integrate revolving entrance doors with other systems as required for a complete working installation. Provide electrical interface to deactivate automatic revolving door entrance operator on activation of fire alarm system.

1.9 WARRANTY

A. Revolving Entrance Doors shall be free of defects in material and workmanship for a period of one (1) year from the date of substantial completion.

B. During the warranty period the Owner shall engage a factory-trained technician to perform service and affect repairs. A safety inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.

C. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.

PART 2 - PRODUCTS

2.1 REVOLVING ENTRANCE DOORS

A. Manufacturer: CJ Rush Entrance Systems Ltd.; Series 1500A revolving entrance doors with automatic speed control.

2.2 MATERIALS

A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   1. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221 (ASTM B 221M).
   2. Sheet and Plate: ASTM B 209 (ASTM B 209M).

3. Welding Rods and Bare Electrodes: AWS A5.10/A5.10M.

B. Stainless Steel:
1. Bars and Shapes: ASTM A 276, Type 304.
2. Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304.
3. Welding Electrodes and Rods: AWS A5.9.

C. Fasteners: Manufacturer's standard, of same basic metal as fastened metal, unless otherwise indicated.

2.3 REVOLVING ENTRANCE DOOR ASSEMBLIES

A. General: Provide manufacturer's standard revolving entrance door assembly, complete with door wings, enclosure walls, ceiling, hardware, glass, controls, operators, activation devices, safety devices, and accessories as indicated.

Specifier Note: Modify paragraph below to suit project requirements; 3-Wing and 4-Wing configurations available. Coordinate with other sections.

B. Revolving Entrance Door Assembly:
1. Operation: Automatic with overhead speed control.
2. Configuration: **[3 Wing] [4 Wing]**
3. Construction: Fully framed enclosure and door wings.
4. Activation Devices: Motion detectors to activate automatic speed-control unit.

C. Operator Safety Devices: Control door operation by the following equipment:
1. Motion sensors shall activate the door when a person or object enters the detection zone and is at least 28 inch (710mm) high.
2. Infrared-scanner presence detector that stops the unit when it detects objects in the pathway, located across the top rail of the door wings.
3. Vertical compression safety strip, located on leading edge of enclosure wall posts, which stops the unit when impacted by an object.
4. Vertical compression safety strip, located on the leading edge of all door wings, which stops the unit when impacted by an object.
5. Horizontal heel guard safety strip, located on bottom of leading edge of door wings, which stops the unit when impacted by an object.
6. Entry point sensor (ceiling mounted) that detects objects or people entering the door in the last 20 inches of wing travel before reaching the corner post. Door will slow and stop,with stoppage occurring within 10 inches of detection or 1 second whichever occurs first.

2.4 COMPONENTS

A. Stile-and-Rail Door Wings: Manufacturer's standard 1-1/4 inch (32 mm) thick, glazed doors with tubular stile-and-rail members.
1. Material: Extruded aluminum.
2. Glazing: CAN/CGSB 12.3 M91:CAN/CGSB12.1:ASTM C 1048; Quality Q3; Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent flat glass).
a. Class 1 (clear).
b. Thickness: 1/4 inch (6 mm).
3. Stile Design: Narrow stile; 1 1/2-inch (38 mm) nominal width.
4. Rail Design: 4 inch (102 mm) nominal height.

B. Center Shaft: Manufacturer's standard, solid steel shaft with anodized aluminum extrusion cover.

C. Enclosure Walls: Manufacturer's standard 1-1/2 inch (38 mm) thick, glazed framing with tubular members.
   1. Configuration: Curved with single-bend glass lites.
   2. Material: Extruded aluminum.
   3. Glazing: ASTM C 1048; Quality Q3;CAN/CGSB 12.3 M91:CAN/CGSB 12.1; Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent flat glass) float glass, laminated.
      a. Bent Glass: ASTM C 1464; Kind BFT.
      b. Class 1 (clear).
      c. Thickness: 1/4 inch (6 mm) tempered glass.
   4. Rail Design: 4 inch (102 mm) nominal height.

D. Ceilings: Manufacturer's standard, complying with the following:
   1. Metal: Fabricate soffit and fascia from minimum 0.125 inch (3.2 mm) thick, formed metal sheet matching enclosure walls on brake-formed galvanized sheet or clear anodized aluminum extrusion sub-frame. [Provide access panels for repairs or maintenance to speed controls and collapsing mechanisms.]
   2. Roof: 0.062 inch (1.6 mm) thick roof sheet fastened to canopy sub-frame and caulked when appropriate for weather proofing.
   3. Ceiling Lights: Manufacturer's standard consisting of two recessed LED light fixtures within the revolving entrance door enclosure ceiling, complete with lamps and lenses.

E. Canopy: Manufacturer's standard units with minimum 1/8 inch (3 mm) wall thickness, with layout matching diameter of enclosure walls and with panel sides of material and finish matching enclosure walls. Canopy roof shall be manufacturer's standard, of material and finish matching enclosure walls where visible.

F. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories compatible with adjacent materials.

G. Signage: Provide signage in accordance with ANSI/BHMA A156.27.

2.5 EQUIPMENT

Specifier Note: Modify automatic speed control requirements to suit project. Select Electric control for overhead systems and Electro-Hydraulic speed control for floor mounted power assist systems. Select Maximum Speed (rpm) based on the following:

Automatic Revolving Doors					
Door Diameter (ft)	**9**	**10**	**11**	**12**	**12.5**
Diameter (mm)	**2743**	**3048**	**3353**	**3658**	**3810**
Speed (rpm):	**6.4**	**5.7**	**5.2**	**4.8**	**4.6**

A. Automatic Speed-Control Unit: Provide a powered **electric** speed regulator to permit automatic rotation of revolving entrance door wings. Unit shall allow for manual operation when power is off.
   1. Automatic Operation: Signal from activation device activates unit and revolves door for one turn, and then returns door wings to standard position.
   2. Slow Speed Operation: In accordance with ANSI A156.27.
   3. Maximum Speed: **[##]** rpm.
   4. Location: **Overhead**.

B. Panic-Collapsing Mechanism: Manufacturer's standard concealed device that permits all door wings to automatically release from their normal positions and move outward into the book-fold position when pressure is applied to outer stiles. Unit shall allow pressure adjustment from 100 to 180 lbf (445 to 800 N) and shall be set in accordance with ANSI/BHMA A156.27. Systems incorporating visible collapsing mechanism attached to the door wings or between door wings

are not permitted.

C. Push Bars: Manufacturer's standard 304 stainless steel round bars, 1 inch (25 mm) in diameter.

D. Locks: Manufacturer's standard deadbolt locks to receive cylinders; minimum of two for each revolving entrance door.
1. Cylinders: Comply with requirements in Division 8 Section "Door Hardware."
2. Mounting: Mortised.
3. Location: Extend bolt from bottom of door wing into base of wall enclosure.

E. Control Switch: Provide manufacturer’s standard rotary key switch to allow for full control of the automatic revolving door.
1. Functions: Off, Automatic, Continuous
2. Mounting: Recess mounted, semi-flush in wall on right-hand side of opening.
3. Face-Plate Material: Stainless steel.

F. Weather Seals: Manufacturer's standard replaceable components as follows:
1. Top Rail and Vertical Stile: Rubber and felt combination.
2. Bottom Rail and Shaft: Rubber.

2.6 ACTIVATION AND SAFETY DEVICES

A. Motion Sensors: Self-contained, K-band-frequency, microwave-scanner units with metal or plastic housing; to provide adjustable detection field sizes, patterns, and functions required by ANSI/BHMA A156.27. Mount centered on both sides of canopy fascia.
1. Mounting: Surface mounted.

B. Presence Detectors: Self-contained, infrared-scanner units with metal or plastic housing; to provide adjustable detection field sizes, patterns, and functions required by A156.27. Detectors shall remain active at all times.
1. Shear Edge Entry Point sensor Detector: Recessed in canopy ceiling at shear edge entry point.
2. Door Mounted Presence Detectors: One unit per door wing surface mounted on top rail of each door wing.

C. Safety Switches: Furnish safety switches in accordance with ANSI A156.27.
1. Emergency Stop: An emergency stop switch shall be provided to stop the doors operation. The door will not restart until the switch is reset.
2. Slow Speed: Provide two slow speed switches, one interior and one exterior. When activated slow speed operation shall be at 1/2 the normal operating speed specified herein.
3. Door breakaway contact switches: provided to stop door rotation in the event a door wing is set in the breakout position. When the door wing is reset the contact switch is reactivated to allow rotation of the door.

D. Vertical Safety Strip: Manufacturer's standard compressible safety switch consisting of an impact-pressure-activated, internal contact switch plate encapsulated in a flexible housing. Minimum 1 unit per door wing on vertical stile and 1 unit per shear edge entry point of enclosure on the drum wall corner post.

E. Bottom Rail Sensor Horizontal Safety Strip: Manufacturer's standard compressible safety switch, active in the rotating path of the wing, consisting of an impact-pressure-activated, internal contact switch plate encapsulated in a flexible housing. Minimum 1 unit per door wing mounted on bottom rail. Upon receipt of a signal, the door shall stop rotating.

F. End Wall Leading Edge Sensor: A sensing device shall detect an obstruction between the rotating wings and leading edge of the enclosure, and be attached to the corner post. Receipt of signal from this sensor shall cause the door to stop rotating.

2.7 FABRICATION

A. General: Fabricate revolving entrance door assembly components to designs, sizes, thicknesses, and configurations indicated.
   1. Main Extrusions and Tubing: Minimum wall thickness of 0.125 inch (3.2 mm).
   2. Glazing Stops and Gaskets: Manufacturer's standard snap-on, extruded-aluminum, square glazing stops with minimum wall thickness of 0.062 inch (1.6 mm); and preformed resilient glazing gaskets.
   3. Form aluminum shapes before finishing.

B. Prefabrication: Provide revolving entrance doors as prefabricated assemblies. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.
   1. Prefit all hardware at the factory. Remove surface-mounted hardware and carefully package for reinstallation at Project site.
   2. Perform fabrication operations in manner that prevents damage to exposed finish surfaces. For hardware, perform these operations before applying finishes.
   3. Form profiles that are sharp, straight, and free of defects or deformations.
   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.
   6. Fabricate exterior components to drain water passing joints and condensation and moisture occurring or migrating within the system to the exterior.
   7. Provide anchorage and alignment brackets for concealed support of assembly from the building structure.
   8. Allow for thermal expansion of exterior units.

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. Welded Construction: Weld reinforcement firmly in place. Weld corners. Grind and polish welds to produce an invisible joint. Mechanically finish exposed surfaces after fabrication to eliminate surface blemishes caused by welding, rolling, bending, and forming.

E. Mechanically Joined Construction: Joints shall be tightly bolted together.

F. Fasteners: Provide concealed fasteners for interconnecting metal components and for attaching them to other work, unless otherwise indicated.
   1. Reinforcement: Reinforce members as required to retain fastener threads.
   2. Exposed Fasteners: Do not use exposed fasteners unless unavoidable for assembly of units and for application of hardware. For exposed fasteners, use countersunk Phillips flat-head machine screws finished to match framing members or hardware being fastened, unless otherwise indicated. Equally space exposed fasteners.

G. Hardware: Factory install hardware to greatest extent possible; remove only as required for final finishing operation and for delivery to and installation at Project site. Cut, drill, and tap for factory-installed hardware before applying finishes. Provide sliding weather stripping, mortised into stiles and rails of door wings, to be adjustable and replaceable without dismantling door

wings.

H. Doors: Factory fabricated and assembled in profiles indicated. Reinforce as required to support imposed loads and for installing hardware.

I. Enclosure Walls and Ceilings: Fabricate tubular and channel frame assemblies in configuration indicated, with welded or mechanical joints according to manufacturer's standards and as specified. Provide subframes and reinforcement of types indicated or, if not indicated, as required for a complete system to support required loads.

J. Glazing Channels: Provide minimum clearances for thickness and type of glass indicated according to GANA's "Glazing Manual."

K. Factory-Glazed Door Fabrication: Glaze door wings at the factory. Comply with glazing requirements specified.

L. Activation and Safety Devices: Factory installed and tested.

2.8 ALUMINUM FINISHES

A. General: Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designing finishes. Finish designations prefixed by AA comply with system established by Aluminum Association for designing finishes.

Specifier Note: Modify paragraph below to suit project requirements.
- **Select appropriate standard finish from options below.**
- **Make multiple selections as required; schedule accordingly.**
- **See last page of this document for a summary of unspecified finish options.**

B. [Class II, Clear Anodic Finish: AA-M12C22A31 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.40 mils minimum complying with AAMA 611-98, and the following:
1. AAMA 607.1
2. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.]

C. [Class I, Color Anodic Finish: AA-M12C22A42/A44 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, integrally colored or electrolytically deposited color coating 0.70 mils minimum complying with AAMA 611-98, and the following:
1. Color: Dark Bronze.
2. AAMA 606.1
3. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.]

PART 3 - EXECUTION

3.1 INSPECTION

A. Examine conditions for compliance with requirements for installation tolerances, and other conditions affecting performance of revolving entrance doors.

B. Examine rough-in for recessed, floor mounted speed-control units to verify actual unit location before equipment installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Do not install damaged components. Fit frame joints to produce joints free of burrs and distortion. Rigidly secure non-movement joints.

B. Connect speed-control unit to electrical power distribution system as specified in Division 26 Sections.

C. Pivot Bearing: Insert pivot bearing in rough-in floor opening set on level bed of non-shrink, nonmetallic grout. Fill annular space between pivot bearing and sides of recess with non-shrink, nonmetallic grout. Mix and place grout to comply with grout manufacturer's written instructions.

D. Entrances: Install revolving entrance doors plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
2. Cut and trim framing during installation only with approval of manufacturer and according to manufacturer's written instructions.
    a. Restore finish and remove and replace members, as directed, where cutting and trimming have impaired strength or appearance.
    b. Do not install members that are warped, bowed, deformed, or otherwise damaged or defaced to such an extent as to impair strength or appearance. Remove and replace members, as directed, that have been damaged during installation.
3. Provide recessed grilles in accordance with manufacturers recommendations.

E. Electrical Connections: Connect speed control units, controls, and lighting to electrical power distribution system as specified in Division 26 Sections.

F. Glazing: Glaze revolving entrance doors in accordance with, the Glass Association of North America (GANA) Glazing Manual, and published recommendations of glass product manufacturer.

G. Sealants: Comply with requirements specified in Division7 Section "Joint Sealants" and CAN/CGSB 19.13 M87.

3.3 FIELD QUALITY CONTROL

A. Testing Services: Factory Trained Installer shall test and inspect each revolving entrance door to determine compliance of installed systems with applicable ANSI standards.

3.4 ADJUSTING

A. Adjust speed control units, controls, and hardware for smooth and safe operation, for tight closure, and complying with requirements in ANSI/BHMA A156.27.

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. Comply with requirements in Division 8 Section “Glazing”, for cleaning and maintaining glass.

END OF SECTION 08 42 33.23

Available options not specified in this document are summarized as follows:

1. Manual speed control units; automatic specified.
2. Rail options for door wings and enclosure.
3. Adjacent entrances and storefront.
4. Finish options (Standard Options Specified):
    a. Color anodizing options; “Champagne” to “Black”
    b. Multi-coat Fluoropolymer painted finishes.
    c. Cladding; Stainless Steel or Copper Alloy Bronze.
5. Floor grills and mats.
6. Push bar options, material and shape options.
7. Glazing options for door wings and enclosure, including insulated glazing options.

Contact your local Contact your local CJ Rush Entrance Systems Ltd. representative for more information on specifying the right automatic revolving door entrance for your project.