



Section 08300 Architectural Specifications UltraLite High Speed Industrial Door

SECTION 08300 HIGH-SPEED ROLLING DOORS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. High-speed roll up doors.
- B. Wiring from electric circuit disconnect to operator to control station.

1.02 RELATED SECTIONS

- A. None.

1.03 REFERENCES

- A. NEMA – National Electrical Manufacturers Association.
- B. UL – Underwriters Laboratory Incorporated.

1.04 SYSTEM DESCRIPTION

- A. Electrical motor operated unit with manual override in case of power failure.

1.05 SUBMITTALS

- A. Submit the following:
 - a. Shop Drawings: Indicate pertinent dimensioning.
 - b. Product Data: Provide general construction, component connections and details, electrical equipment and operation instructions.
 - c. Samples: Submit color samples of door panels for selection by owner.
 - d. Manufacturer's Installation: Indicate installation sequence and procedures, adjustment and alignment procedures.

1.06 REGULATORY REQUIREMENTS

- A. Electrical components UL listed.
- B. Electrical enclosure NEMA approved.

1.07 QUALITY ASSURANCE

- A. Furnish high-speed roll doors and all components and accessories by one manufacturer.

1.08 FIELD MEASUREMENTS

- A. Verify field measurements are as indicated on shop drawings.

1.09 COORDINATION

- A. Coordinate the work with installation of electric power and locations and sizes of conduit.

1.10 WARRANTY

- A. One year parts and labor limited warranty.
- B. No springs allowed.

PART 2 – PRODUCTS

2.01 PRODUCTS

- A. Albany Door Systems UltraLite high speed industrial door.
- B. No substitutions permitted.

2.02 MATERIALS

- A. Door Panel:
 - a. 40 ounce replaceable vinyl panel sections connected by extruded aluminum ribs to allow for easy panel replacement. 2-ply or 3-ply woven monofilament polyester PVC impregnated material is optional.
 - b. Standard color is Blue, optional colors available.
- B. Windows:
 - a. Full width PVC vision panel, 30" in height must be slide in, slide out.
 - b. Optional full width screen panel or replaceable 24" X 24" PVC windows.
- C. Side Frames and Head Member:
 - a. Fully bolt together. All structural materials to be made of extruded aluminum.
 - b. Front columns to be finished and powder coated safety yellow.
 - c. Front column wall should be thick enough to minimize damage if impacted.
 - d. Side frames to have double weather seal. Seal must be on both the front and back side of the door panel.
 - e. Double weather seal must be provided along the entire top of the door.
 - f. Door must have no visible air gaps along the side or top of the door when the door panel is in the closed or down position.
- D. Drive System:
 - a. Minimum 1.5HP in line hollow shaft worm drive with three phase variable speed AC drive.

E. Control Panel:

- a. ACS 50 controller housed in a NEMA 4 enclosure.
- b. Control Panel size should be no larger than 11.8"W x 15.75"H x 8.25"D.
- c. ACS 50 includes 26 LED indicator lights to aid in troubleshooting
- d. Control Panel must have the ability to "close after passing" (CAP).
- e. ACS 50 control functions determined by dip switch settings.
- f. Top and bottom limits to be adjustable from the drive.
- g. Control panel shall include an adjustable, automatic closing timer, emergency stop, two actuating push buttons and a cycle counter.
- h. The Control Panel must have standard dry contacts for open indication, closed indication, and warning lights.
- i. Control Panel must contain a jumper that allows for operation in ranges of 208v-240v, 440v-480v, or 575v-600v.
- j. Control Panel must have a rotary disconnect.

F. Bottom Bar:

- a. Fully padded bottom bar.
- b. Releases from side frames in either direction upon impact.
- c. Upon impact, door operation is stopped. Controller must indicate problem encountered.
- d. Bottom bar must be self-repairing. Door must automatically reset itself after impact by pressing a button on control panel, no tools required.
- e. Door to be provided with failsafe electric safety edge. No pneumatic edges allowed.

G. Safety Features:

- a. Door to be provided with one remote mounted set of thru-beam photo eyes.
- b. Door to be provided with failsafe electric safety edge. Door controller must indicate if the safety edge is not operable.
- c. Door must be provided with a full width padded bottom bar.

H. Speed:

- a. The standard ACS 50 controllers parameters are one-speed = 24"/sec. up; 24"/sec. down, two-speed = 49"/sec. up; 24"/sec. down.

I. All components furnished by factory.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify that opening sizes, tolerances and conditions are acceptable.

3.02 INSTALLATION

- A. Install door assembly in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall constructions and building framing without distortion or stress.

- C. Fit and align assembly including hardware; level and plumb to provide smooth operation.
- D. Coordinate installation of electrical service. Complete wiring from disconnect to unit components.
- E. Seal opening around door frame and header.

3.03 ADJUSTING

- A. Adjust door and operating assemblies.
- B. Test and adjust door, if necessary, for proper operations.

3.04 CLEANING

- A. Clean door and components.

END OF SECTION