

**SUGGESTED ARCHITECTURAL SPECIFICATION
ISO-ROLL 315 FABRIC ROLL-UP DOOR**

**DIVISION 8
SECTION 08300
SPECIALTY DOOR SYSTEMS**

PART 1 - GENERAL

1.01 SECTION INCLUDES:

- A. Specifications for ISO-Roll 315 fabric roll-up doors.

1.02 RELATED SECTIONS

- A. Division 16 - Electrical

1.03 SUBMITTALS

- A. Product Data: Completely describing components.
- B. Shop Drawings: Showing details of fabrication, installation and accommodation to connecting work.
- C. Owner's Manual: Installation, operation, and troubleshooting of door system.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Company specializing in manufacturing high-speed cleanroom fabric roll-up doors.
- B. Single Source Requirements: To the greatest extent practical, fabric roll-up doors shall be supplied from a single manufacturer.
- C. Project Conditions: Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

PART 2 - PRODUCT

2.01 MANUFACTURER

- A. ISO-Roll 315 Fabric Roll-Up Door System as manufactured by ASI Doors, Inc., Milwaukee, WI.
- B. Substitutions:
No substitution will be considered unless a written request for approval has been submitted by the bidder and has been received by the architect at least ten (10) days prior to the date for receipt of bids.
Each such request shall include the name of the materials for which it is to be substituted and a complete description of the proposed substitute, including drawings, cut sheets, mockups, performance and test data, a list of projects of similar scope and photographs of existing installations, and any other information necessary for evaluation.

- C. Warranty:
1-year limited warranty on all components.

2.02 FABRIC ROLL-UP DOORS

- A. ISO-Roll 315 High-Speed Fabric Roll-Up Door System.
1. Door size to fit door opening _____ wide X _____ high, or shown on architectural drawings.
 2. Doors shall be high-speed electric powered fabric roll-up doors.
 3. Fabric to be a minimum 27 oz/yd² (900 g/m²) polyester multifilament PVC coated curtain material with lacquer topcoat, both sides, FDA compliant. Panel color to be white or blue.
 4. Electric operator to allow opening speed up to 80 inches per second. Electric motor to be 1 hp, 120 or 208 or 230 volts, single-phase or optional 208 or 230 or 460 or 575 volts, three-phase unit. Speed is fully adjustable. Control box contains a self-diagnostic custom microprocessor with variable frequency drive. Electric door operator to be fully enclosed within drive shaft. Externally mounted or exposed motors are not acceptable.
 5. Electric control panel to be in a NEMA-4 rated enclosure, assembled and ready for connection by others. Control panel must have push button emergency stop.
 6. Curtain bottom edge to be free of any rigid structural pieces. Bottom edge equipped with a flexible wireless reversing edge. Reversing edge to be sealed within the full width of the bottom curtain loop and is activated only when pressure is applied. Reversing signal sent wirelessly via transmitter and receiver eliminating coil cords. No wires on bottom edge, sides of curtain, or coil cords will be allowed.
 7. Door system to contain integrated system to prevent back roll of curtain.
 8. Send and receive photo eye to be provided, located within door side frame.
 9. Absolute encoder to provide infinite adjustment. Adjustments to be made without the aid of special tools. **NO DOOR TRAVEL SETTINGS NEED TO BE RESET AFTER POWER LOSS.** Doors requiring manual assistance, recalibration, or operator interface with door controls after power loss not allowed.
 10. Door actuation to be provided by:
 - a) Single control with Open/Close and Emergency Stop push buttons, or
 - b) One ceiling mounted, low voltage pull switch, or
 - c) Radio control actuator, or
 - d) Motion detector system, or
 - e) Touchless infrared switch, or
 - f) Stainless steel pushbutton, water and dust-proof, IP67 Rated.
 11. Curtain displacement and recapture system:

- a) Door curtain shall be able to release at any point of the full height on both edges of door.
 - b) Door curtains that partially release are not acceptable.
 - c) Impacted or displaced curtain will automatically reintegrate the curtain back into the track retention system. Doors requiring manual assistance, recalibration, or operator interface with door controls for curtain alignment not allowed.
 - d) Doors requiring straps, breakable clips, tape connections, or wind knobs or wheels on the curtain will not be allowed.
12. Springs in barrels and/or side columns will not be allowed. Tension straps or counterbalances will not be allowed.
13. Curtain & Track Retention System.
- a) Door curtain to be free of any rigid or structural stiffeners and bottom bars.
 - b) Door curtain to have a top seal that engages with dual lintel seals in the header assembly. The top seal rolls up with the door panel to prevent scraping of vision window and curtain discoloration. Seal to automatically deploy against dual header lintel seals when door is fully closed. Door curtains with top seal penetrating wall or constant contact while door rolls up are not allowed.
 - c) Top to bottom continuous side seals. Curtain edges to have continuous lateral reinforced strips from floor to top of opening eliminating potential of gaps for air infiltration. Door curtain to fully retract within door shroud in full open position.
 - d) Continuous track system to require no more than 1/8" gap for door curtain edges to travel inside of. Track retention system capable of holding door curtain differential pressure up to 0.20 inches of water column.
 - e) Low profile side column requires 3-5/8" wall space on each side column of door.
 - f) Doors requiring straps, breakable clips, tape connections, wheels or wind knobs on the curtain or breakaway feature will not be allowed.
14. Provide a minimum of 304 stainless steel side frames and side covers.
15. Provide a minimum of 304 stainless steel shroud to cover barrel and operator Mechanism. Shroud cover not to exceed 12-1/8" inches in maximum height. Shroud is optional.
16. Full width 28" high clear PVC window panel is optional.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify installation conditions as satisfactory to receive work of this section. Do not install until unsatisfactory conditions are corrected. Beginning work constitutes your acceptance of conditions as satisfactory.
 - 1. Verify opening size, dimensions and tolerances.

3.02 PREPARATION

- A. Protect surrounding areas and surfaces to prevent damage during work of this section.

3.03 INSTALLATION

- A. Install the work in accordance with manufacturer instructions.

3.04 WARRANTIES

- A. One year limited warranty on all components.

3.05 CLEANING

- A. Leave the premises clean and free of residue of work of this section.

END OF SECTION