

SUGGESTED ARCHITECTURAL SPECIFICATION

MODEL 415 ISO-ROLL HIGH SPEED FABRIC ROLL-UP DOOR SYSTEM

DIVISION 8 SECTION 08300 SPECIALTY DOOR SYSTEMS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Fabric Roll-Up doors and accessories for complete installation.

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. Installation Instructions: For door, operator and accessories.
- D. Operating and Maintenance Data: For door, operator and accessories.

1.04 QUALITY ASSURANCE

- A. Installer Qualification: Door manufacturer, or trained, approved and licensed door installer.

PART 2 - PRODUCT

2.01 MANUFACTURERS

- A. Model 415 Iso-Roll Fabric Roll-Up Door System as manufactured by ASI Doors, Inc., Milwaukee, WI.
- B. Substitutions:

No substitution will be considered unless 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, cuts, mockups, performance and test data, a list of projects of similar scope and photographs of existing installations, and any other information necessary for evaluation.

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2.02 FABRIC ROLL-UP DOORS

- A. Model 415 Iso-Roll 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 .030" thick polyester multifilament PVC coated curtain material, FDA compliant. Panel color to be white or blue.
 4. Electric operator to allow open speed up to 50 inches per second. Electric motor to be 1 hp, 120 volt, single phase or optional 230/460 volts, 3 phase 60 hz unit. Two speed operation 48"/sec. open, 21"/sec. close. Self-diagnostic custom microprocessor with variable frequency motor drive allows for speed to be fully adjustable.
 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. Wires on the bottom edge or sides of curtain will not be allowed; coil cords are also not allowed.
 7. Send and receive photo eye to be provided, located within door side frame.
 8. 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 are not allowed.
 9. Door actuation to be provided by:
 - a) Standard double gang, flush mount push plates with "PRESS TO OPERATE DOOR" legend and stainless steel surround.

or
 - b) Single control with Open / Close and Emergency Stop push buttons.

or options:
 - c) One ceiling mounted, low voltage pull switch.

or
 - d) Radio control actuator

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or

- e) Motion detector system
10. 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 recapture itself on the next upward cycle. Doors requiring manual assistance, recalibration, or operator interface with door controls for curtain alignment are not allowed.
 - d) Doors requiring straps, breakable clips, tape connections, or wind knobs or wheels on the curtain will not be allowed.
11. Springs or counterweights in barrels and/or side columns will not be allowed. Tension straps will not be allowed.
12. Curtain & Track Retention System
- a) Door curtain to be free of any rigid or structural stiffeners and bottom bars.
 - b) Door curtain top seal integrated to door curtain. Top seal rolls up with door to prevent scraping of vision window and curtain discoloration. Seal to automatically deploy against wall 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 will fully retract under/into door shroud in full open position.
 - d) Continuous track system to require no more than 4mm gap for door curtain edges to travel inside of. Track retention system capable to holding pressure up to .12 inches of water column. Track Systems requiring additional gasket attached to side frames are not acceptable.
 - e) Low profile side column requires 3 1/8" wall space on each side of door opening.
 - f) Doors requiring straps, breakable clips, tape connections, wheels or wind knobs on the curtain or breakaway feature will not be allowed.
13. Provide a minimum 12 gauge 304 stainless steel side guide/frame system. Side covers minimum 20 gauge, 304 stainless steel.
14. Provide minimum 16 gauge 304 stainless steel shroud to cover barrel and operator mechanism.

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15. Full width 28" high clear PVC window panel is optional.
 - a) Window to have beveled top and bottom edges.

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