

SUGGESTED ARCHITECTURAL SPECIFICATION
Model 109 HYDRAROL
HIGH SPEED ROLL-UP DOOR

DIVISION 8
SECTION 08300
SPECIALTY DOOR SYSTEMS

PART 1- GENERAL

1.01 SECTION INCLUDES

A. HYDRAROL High Speed 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. MARATHON Model 109 HYDRAROL High Speed Roll-Up door as manufactured by ASI Technologies, Inc., Milwaukee, Wisconsin

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, list of projects of similar scope and photographs of existing installations, and any other information necessary for evaluation.

2.02 HIGH SPEED ROLL-UP ROLLS

A. MARATHON Model 109 HYDRAROL High Speed Roll-Up Door.

1. Door size to fit door opening __ wide x __ high, or as shown on architectural drawings.
2. Doors shall be high speed hydraulic powered insulated aluminum slat roll-up doors.
3. Slats constructed of an exterior face of anodized aluminum and an interior face of rigid polyvinyl chloride and capped with nylon end caps. Slats to be filled and unitized with pour-type polyurethane foam having a α factor of .12 at 75 ° F.
4. Curtain shall withstand a minimum of 20 PSF exterior windload (88mph). Doors to have nylon windlocks and windlock guides. Doors to be fully weather sealed, with top seal to include header-mounted brushes and bottom seal to be continuous along full length of door edge.
5. Side guides to be lined with high density PVC to prevent metal-to-metal contact with slats. Curtain travel guide system with roller wheels will not be allowed.
6. Dual speed hydraulic operator up to 42 inch/second open and 21ö/sec close. Electric motor to be 1 or 2 hp, 208/230/460 volts, 3 phase 60 hz unit.
7. Hydraulic operator to have logic block valving system to control acceleration, deceleration and stopping of door. Operators using clutches and brakes to stop door motion are not allowed. Operator assembly to include hydraulic security disc brake to hold door in place after door has been stopped.
8. Electric control panel to be in a NEMA-4 rated enclosure, assembled and ready for connection by others.
9. Door curtain to be equipped with electric activated reversing edge along full length of door edge.
10. Travel limit switch to provide infinite adjustment. Adjustments to be made without the aid of special tools.
11. Door actuation to be provided by:
 - a) Two single control push buttons.

- or
- b) Two ceiling mounted, low voltage pull switches.
- or
- c) Radio control actuator.
- or
- d) Motion detector system.
- or
- e) Loop detector.

Note: Time delay close operation available with any of the above.

12. Exterior color to be anodized aluminum, interior slat color to be safety orange (or gray).

13. [Option: Vision area to be provided. Window slats to be in four slats.]

14. [Option: Provide galvanized metal shroud to cover barrel (and operator)].

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 on door and hardware.

3.05 CLEANING

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

END OF SECTION