



07-25-14
Pharma-Seal®
Model Number PS2000

SECTION 08300
HIGH SPEED ROLLING DOORS

PART 1 – GENERAL

1.01 SUMMARY

- A. Work included: Furnishing and installing a Rytec Pharma-Seal® high performance door.

1.02 RELATED SECTIONS

- A. Section 06200 – Carpentry
- B. Section 06420 – Architectural Paneling
- C. Section 16120 – Electrical Supply and Termination

1.03 REFERENCES

- A. National Electrical Manufacturers Association (NEMA), 1300 North 17th Street, Suite 1752, Rosslyn, Virginia 22209 Phone (703) 841-3200 Fax (703) 841-5900.
- B. Underwriters Laboratory listed (UL), 333 Pfingsten Road, Northbrook, IL 60062 Phone (847) 272-8800 Fax (847) 272-8129.
- C. Canadian Standards Association (CSA) equivalent to C-UL, 178 Rexdale Blvd., Rexdale, ON, Canada M9W 1R3, Phone (416) 747-4000 Fax (416) 747-4149
- D. Occupational Safety & Health Administration (OSHA), 200 Constitution Avenue, NW, Washington DC 20210 Phone 1-800-321-6742 www.osha.gov

1.04 SYSTEM DESCRIPTION

- A. This section covers the furnishing and installation of a complete automatic Rytec Pharma-Seal® high speed roll up door.



1.05 SUBMITTALS

A. Submit the following :

1. Shop Drawings: Rytec will submit shop drawings for the fabrication and installation for the Rytec Pharma-Seal® high speed roll up door and associated components of the work. Indicate anchors, joint system, hardware and other components not included in manufacture's standard data.
2. Product Data: Rytec will submit product data and standard details for the Pharma-Seal® high speed roll up door, including fabrication, finishing hardware, operators, accessories and other components of the work. Include wiring schematics, parts lists, maintenance instructions, and certified test data (when required).
3. Samples: Submit samples of door fabric material.
4. Installation: Rytec will furnish templates, diagrams, and data to fabricators and/or installers of related door installation work, as needed for the installation of the automatic Rytec Pharma-Seal® high speed roll up door.

1.06 MAINTENANCE DATA

- ### A. Maintenance Data: Planned Maintenance recommended schedule is included in the owner's manual frequency requirements for lubrication, periodic adjustments and scheduled maintenance. Manual also includes manufactures data sheets, and equipment interconnection diagrams.

1.07 REGULATORY REQUIREMENTS

- A. Electrical components U.L. listed.
- B. Electrical enclosure NEMA rated.

1.08 QUALITY ASSURANCE

- A. Manufacturers qualifications: Provide units produced by a firm with successful experience in the fabrication of automatic doors of the type required for this project.
- B. Installers qualifications: Engage an installer who is an authorized representative of the automatic door manufacturer for both the installation and maintenance of the type of units required for this project.

1.09 FIELD MEASUREMENTS



- A. Verify actual dimensions/openings by field measurements before fabrication and record on shop drawings. Coordinate with fabrication and construction schedule to avoid construction delays.

1.10 COORDINATION

- A. Coordinate installation with mechanical and electrical contractors.

1.11 PRODUCT HANDLING

- A. All materials shall arrive in the manufacture's original sealed, labeled containers.
- B. Store materials in a dry, protected, well vented area. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Remove all protective materials after installation.

1.12 JOB SITE CONDITIONS

- A. Verify other trades are complete before installing the Rytec high performance roll-up door.
- B. Mounting surfaces shall be plumb, straight and secure; substrates shall be of proper dimension and material.
- C. Refer to Rytec documents, shop drawings and installation instructions.
- D. Coordinate installation with electrical work.
- E. Observe all appropriate OSHA safety guidelines for this work.

1.13 WARRANTY

- A. Rytec Corporation warrants the Pharma-Seal® high speed roll up door sold to the buyer will be free of defects in materials and workmanship under normal use for a period of twelve (12) months from the date of shipment of the product from the Rytec plant.



PART 2 – PRODUCTS

2.01 PRODUCTS

- A. The high speed roll up door(s) furnished and installed shall be of type(s) and size(s) specified as indicated on plans by the Rytec Corporation.
- B. No substitution shall be considered unless written request for approval has been submitted by the bidder and has been received by the architect at least (10) days prior to the date for receipt of bids.
- C. Each request shall include the name of the materials to be substituted and complete description of the substitute, if a similar existing project is available photographs, scope of work and any other necessary information needed for evaluation.

2.02 MATERIALS

- A. Door Panel: USDA/ FDA – compliant, 2-ply multifilament white or blue panel with wind tabs standard. No windribs needed. Optional heat-sealed, full width PVC vision panel is easy to clean and provides excellent visibility. Easily withstands industry standard of 0.10 inches of water, with little to no air infiltration.
- B. Head and Side Frames: Standard head and side frames are constructed of 304 stainless steel with a #4 finish. Optional 316 stainless is available. Fully-enclosed side frames are easy to clean and simple to remove. Only 9 inches of side frame clearance and 14 inches of head clearance required.
- C. Bottom Bar: Stainless clad bottom bar with only a 3-inch profile height. Fabric loop seal hugs the floor for a tight seal. No coil cord or other electronics in the bottom bar.
- D. Door Safety: Patented RyBeam™ light curtain mounted in the door jamb provides coverage of the door opening up to 98". Persons or objects entering the opening will cause the door to reverse without contact.
- E. Manual Release: Counterbalanced manual release system incorporates fully-enclosed counterweight system and brake release allowing the door to open with the flip of a flush lever. An optional thru-wall break release will allow release from both side of the wall if specified.
- F. Head Assembly: Stainless steel hood fully encloses the head creating a seal at the top of the door, eliminating the need for a weather gasket that eventually can create particles in the air and on the floor.



- G. Drive System: Three-phase, variable speed, AC drive provides soft acceleration and deceleration. Independent opening and closing speeds provide flexibility to accommodate any application.
- H. Travel Speed: Opens at up to 50 inches per second.
- I. Electrical Controls
 - 1. Rytec controller housed in a UL/cUL Listed NEMA 4X-rated enclosure with factory set parameters.
 - 2. Parameter changes and all door configurations can be made from the face of the control box, no exposure to high voltage. Control panels that require opening of the control box and reaching inside to make parameter changes will not be accepted.
 - 3. Controls include a variable speed AC drive system capable of infinitely variable speed control in both directions.
 - 4. Programmable inputs and outputs accommodate special control applications (traffic lights, horns, actuation devices, timing sequences, etc.) without the need for additional electrical components.
 - 5. Self-diagnostic scrolling two-line vacuum fluorescent display provides expanded informational messages for straightforward installation, control adjustments and error reporting.
 - 6. Complete history of door, at least two years, is logged and encrypted onto a USB flash drive. All errors have a time and date stamp for reference. Control panels not logging up to two years of door history will not be accepted.
- J. Color: All components factory finished.
- K. Controls: Pharma-Seal® comes standard with push button controls on the control box, however there are many other options available including a flush membrane switch built into the side column, touch-less push buttons, motion detectors, etc. Please consult the factory for all options.

PART 3 – EXECUTION

3.01 EXAMINATION

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

3.02 INSTALLATION

- A. Install door unit assembly in accordance with manufacture's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Fit and align assembly including hardware; level to plumb to provide smooth operation.



- D. Coordinate installation of electrical service. Complete wiring from disconnect to unit components.

3.03 ADJUSTING

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

3.04 CLEANING

- A. Follow detailed cleaning instructions outlined in Pharma-Seal® Owners Manual.

3.05 CONTACT INFORMATION

Rytec Corporation
One Cedar Parkway
Jackson, WI 53037
1-888-GO-RYTEC
(262) 677-9046
www.rytecddoors.com

END OF SECTION