



PredaDoor NXT®
Model Number PD5500NXT

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. LED – Light Emitting Diode.

1.04 SYSTEM DESCRIPTION

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

1.05 SUBMITTALS

- A. Submit the following:
 - 1. Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations and installation details.
 - 2. Product Data: Provide general construction, component connections and details, and electrical equipment, operation instructions and information.
 - 3. Samples: Submit color samples of door panels for selection by owner.
 - 4. Manufacturer's Installation: Indicate installation sequence and procedures, adjustment and alignment procedures.



1.06 MAINTENANCE DATA

- A. Recommended preventive maintenance program to be included indicating lubrication requirements and frequency, periodic adjustments required, scheduled maintenance suggested, manufacturers data sheets, and equipment interconnection diagrams.

1.07 REGULATORY REQUIREMENTS

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

1.08 QUALITY ASSURANCE

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

1.09 FIELD MEASUREMENTS

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

1.10 COORDINATION

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

1.11 WARRANTY

- A. Two-year limited warranty on materials and workmanship.
- B. Limited three-year warranty on 2-ply Rilon™ door panel material.

PART 2 – PRODUCTS

2.01 PRODUCTS

- A. Rytec Corporation Model PD5500NXT.
- B. No substitutions permitted.



2.02 MATERIALS

- A. Door Panel: 71 oz, 2mm thick, 2-ply Rilon™ panel sections connected by two integral extruded panel connecting ribs and a 31-inch high, replaceable, full-width PVC vision panel. Rilon to be multi-layered, woven, dimensionally stable, puncture resistant, polymer impregnated monofilament polyester fabric. Door panel to have modular design to allow easy panel section replacement. Material to be vertically flexible, but laterally stiff. Fabrics that are flexible both vertically and laterally will not be accepted.
- B. Side Frames: Fully bolt-together, anodized aluminum construction with front side, and back side, full-height brush seals to seal against the panel material. Dual electric thru-beam photo eyes standard.
- C. Bottom Bar: Break-Away™ bottom bar consisting of a one-piece extruded aluminum member that releases in either direction without damage to the door. Dual cut-off switches shut off motor when bottom bar is impacted. Dual, pneumatic, soft auto-reversing edge on bottom bar. No exposed junction box on bottom bar. Vinyl loop hugs contour of floor for tight seal. Break-away and reversing edge signal is carried to the door controller via radio frequency. Doors using coil cord to transmit signal will not be accepted.
- D. Reset System: When bottom bar and door panel are separated from side frames, they can be reset by pushing a button on the face of the control box. Doors that require bottom bar and panel to be manually reset will not be accepted.
- E. Drive System: Three phase, variable-speed AC drive provides soft acceleration and deceleration. Independent opening and closing speeds provide flexibility to meet any application. Motors using a clutch or brake to start or stop door movement will not be accepted.
- F. Travel Speed: Adjustable at control box level. Factory-set to open at 50 inches per second and close at 21 inches per second.
- G. Electrical Controls: Housed in a Nema 4 rated enclosure with factory set parameters. Self-diagnostic features and a two line, 32-character LCD display provide quick and straightforward installation and control adjustments. Programmable inputs and outputs accommodate special control applications without the need for additional electrical components. Control panels that require a portable computer unit, additional components or other devices for programming and/or troubleshooting will not be accepted.
- H. Door to use absolute rotary encoder to regulate door travel limits. Limits to be adjustable, without the use of tools, from floor level at the control panel. Doors using mechanical limits switches or doors that require tools or access to the operator in order to adjust limits will not be accepted.
- I. All components factory finished. Colors selected by owner.



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 manufacturer'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. Clean door and components.

END OF SECTION