



Section 0830000 Specialty Doors
Section 0833323.13 Overhead Rapid Coiling Doors
Rytec Wynd Star Model MT

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. High-performance flexible, roll-up car wash doors.
- B. Wiring from electric circuit disconnect to control station.

1.02 RELATED SECTIONS

- A. None

1.03 REFERENCES

- A. NEMA – National Electrical Manufacturers Association.
- B. Underwriters Laboratories Inc. (UL) – Standard for Safety for Industrial Control Equipment

1.04 SUBMITTALS

- A. Submit the following administrative requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations
 - 3. Installation methods
- C. Shop Drawings: showing overall dimensions (width, height) and location of electrical service panels and motor locations
- D. Closeout submittals:
 - 1. Submit manufacturer's owner's manual, maintenance manual.
 - 2. Manufacturer's warranty
- E. Selection Samples: Two complete sets of color samples representing full range of available colors if required.



1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Providing sole source for design, engineering, manufacturing and warranty claims handling
- B. Installer Qualifications: Trained and certified by manufacturer.

1.06 DELIVERY STORAGE AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

1.07 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilations) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.08 WARRANTY

- A. The manufacturer shall provide a one-year limited warranty on materials and workmanship.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: Wynd Star Doors by Rytec, which is located at W223N16601 Cedar Parkway; Jackson, WI; Toll Free Phone: 888-GO-RYTEC, Phone: 262-677-9046; Email: info@rytecdoors.com; Web-site: www.wyndstardoors.com
- B. Substitutions: Not permitted

2.02 PRODUCT

- A. Wynd Star by Rytec Model MT
 - 1. Design: Vinyl roll-up door with frame of composite fiberglass. Break-Away design allows the door to release when impacted and automatically reset upon next door opening. All electrical components should be UL recognized to meet rigorous safety standards and add third-party-testing credibility for compliance and electrical inspections. Doors without UL-Recognized components will not be accepted.



2. Curtain material: Heavy duty replaceable vinyl panel sections connected by integral pultruded fiberglass panel-connecting ribs. Door panel to have modular design to allow easy panel section replacement. Standard full-width, replaceable vision panels constructed of 2 mm PVC. Door curtains of rigid materials such as polycarbonate will not be accepted.
3. Side Frames: Corrosion-resistant pultruded fiberglass side frames, dual full-height brush seals to seal against the panel material. Thru-beam photo eyes standard. Door frames of potentially corrosive materials such as aluminum will not be accepted.
4. Bottom Edge: Soft bottom edge to reduce possible damages to anything that may come into contact with bottom edge. Weighted bottom edge provides a tight seal to the ground when in the closed position. Doors with inflexible or rigid edges will not be accepted.
5. Travel Speed: Factory-set to open and close at 20 inches per second. Doors with higher closing speeds not accepted.
6. Release and Auto-Reset System: When impacted the curtain releases from the guide and automatically resets upon the next opening cycle. Doors without a release and reset system will not be accepted.
7. Drive System: Motor shall be 0.75 HP electric motor with a direct drive gearbox.
 - a. Motor will use an integrated electric brake to keep the door in position when open or closed. Doors requiring the gear box to keep the door in position will not be accepted.
 - b. Motor must be of the size and duty cycle as to not require supplemental cooling.
 - c. Motor will be pre-wired to the controller for easy and simplified installation.
8. Door shall have the ability to manually open and close.
9. Electrical Requirements: Three phase power using 208V, 230V, 460V or 575V, 60 HZ.
10. Controller: Mounted inside a NEMA 4X UL recognized control box
 - a. Non-integrated controller provides increased flexibility for door and controller mounting. Doors with integrated motor and control units (at drive level) will not be accepted.



- b. 24 VAC power supply allows you to power a number of ancillary devices without running a separate power supply. Doors requiring a separate power supply for devices will not be accepted.

11. Limit Switches: Integrated limit switches to be adjustable and will include a reset limit and spare limit switches.

12. Safety: Dual Thru-beam photo eyes monitor the door opening. Safety run timer prevents damage to the door in case of obstruction inhibiting door movement.

13. All components factory finished. Colors selections available.

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