

**SECTION 08360**  
**UPWARD ACTING, VERTICALLY OPERABLE, SECTIONAL DOORS**  
**DoorWall: Quad Fold**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Upward Acting, Vertically Operable, Sectional Door: Multi Fold Design
- B. Aluminum door of rail and stile design with insulated Aluminum plate panels.
- C. Operating hardware and supports

**1.2 RELATED SECTIONS**

- A. Section 03300 - Cast-In-Place Concrete: Prepared opening in concrete.  
Execution requirements for placement of anchors in concrete wall construction.
- B. Section 04810 - Unit Masonry Assemblies: Prepared opening in masonry.  
Execution requirements for placement of anchors in masonry wall construction.
- C. Section 05500 - Metal Fabrications: Steel frame and supports.
- D. Section 06114 - Wood Blocking and Curbing: Rough wood framing and blocking for door opening.
- E. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- F. Section 09900 - Paints and Coatings: Powder Coating.
- G. Section 11150 – Parking Control Equipment: Remote door control.
- H. Section 16130 - Raceway and Boxes: Empty conduit from control station to door operator.
- I. Section 16150 - Wiring Connections: Electrical service to door operator.

**1.3 REFERENCES**

- A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Doors.

**A.4 DESIGN AND PERFORMANCE REQUIREMENTS**

- A. Wiring Connections: Requirements for electrical characteristics.
  - 1. Confirmed by Authorized Installing Distributor

**A.5 SUBMITTALS**

- A. Submit shop drawings and product data under provisions of section 01300.
- B. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

- C. Manufacturer Certificates: Certify products meet or exceed specified requirements
- D. Operation and Maintenance Manuals

#### **1.6 OPERATION AND MAINTENANCE DATA**

- A. Submit under provisions of Section 01700.
- B. Maintenance Data: Include data for lubrication frequency and spare part sources.
- C. Annual Planned Maintenance Required by Owner

#### **1.7 QUALITY ASSURANCE**

- A. Section Component Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum (20) years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum (10) years approved by manufacturer.

#### **1.8 WARRANTY**

- A. Two years for all door components
- B. Frame Finish Warranty:
  - 1. Five-year warranty standard mill finish warranty at manufacturer discretion

### **PART 2 PRODUCT**

#### **2.1 MANUFACTURERS**

- A. Acceptable Manufacturer: For purposes of designating type and quality of work under this Section, Drawings and Specifications are based on products manufactured or furnished by, Acceptable Manufacturer: DoorWall Systems Corporation, One Overhead Way, Warwick, RI 02888. Contact: Todd Grant (m) 617-519-5279, [tg@doorwallsystems.com](mailto:tg@doorwallsystems.com)

Substitutions: Not Permitted

#### **2.2 Aluminum Upward Acting, Vertically Operable, Sectional Door**

- A. Upward Acting, Vertically Operable, Sectional Door: DoorWall Quad Fold. Units shall have the following characteristics:
  - 1. Door Assembly: Stile and rail assembly secured with integrated structural reinforcement- As required by manufacturer
    - a. Finish and Color: Manufacturer Standard Available Color by Architect
    - b. Hardware: Commercial Grade Hardware Required: All hinges and fixtures made of 14-gauge galvanized steel. Full floating, ball bearing rollers have hardened steel races, and roller sizes will be adequate for design requirements and limitations. Heavy-duty, fully adjustable roller brackets

are attached to each end cap to provide an easy adjustment of the door to the job for proper seal. All hardware is heavy-duty and rust-resistant with galvanized fasteners. Heavy-duty rollers contain steel ball bearings in case-hardened steel races.

- c. Weatherstripping:
  - 1) Bottom section astragal.
  - 2) Jamb & Header seals with integrated brush and bulb seals .
- d. Track: Provide commercial grade 2" track as recommended by manufacturer to suit loading required and clearances available. Backtrack with rear hangs considered unacceptable.
- e. Counterbalance: 25,000 cycle minimum
- f. Section Storage: Sections must be securely stored at the header when the door is open position. Backtracks projecting into the opening is not acceptable
- g. Hinges: Hinges to be welded- not cast- construction
- h. Finish: Powdercoat finish on track system- Manufacturer Standard Black

### **2.3 OPERATION**

- A. Electric Motor Operation: Provide electric operator, size and type as recommended by manufacturer's authorized installer:
  - a. Operator Controls:
    - i. UL 325 Compliant Constant Contact Push-button operated control stations with open, close, and stop buttons.

### **3.0 INSPECTION**

- A. Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- B. Beginning of installation means acceptance of existing surfaces.

### **3.1 PREPARATION**

- A. Prepare opening to permit correct installation of door unit.

### **3.2 INSTALLATION**

- A. Install door unit assembly in accordance with manufacturer's instructions.
- B. Anchor assembly to wall construction and building framing without distortion or stress
- C. Secure tracks to structural members only.
- D. Fit and align door assembly including hardware, level and plumb, to provide smooth operation.

E. Install perimeter trim and closures.

### **3.3 TOLERANCES**

A. Maintain dimensional tolerances and alignment with adjacent work.

B. Maximum variation from Plumb: 1/8 inch.

C. Maximum variation from Level: 1/8 inch.

D. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 Ft. straight edge.

### **3.4 ADJUSTING**

A. Adjust door assembly to smooth operation.

### **3.5 CLEANING**

A. Clean doors, frames and glass.

B. Remove labels and visible markings.

**END OF SECTION 08360**