

SECTION 08361 - SECTIONAL OVERHEAD DOORS**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following types of sectional overhead doors:
 - 1. Doors with steel-framed steel panels.
 - 2. Tracks configured for the following lift types:
 - a) High.
- B. Related Sections: Other specifications sections which directly relate to the work of this Section include, but are not limited to, the following:
 - 1. Section 05500 – Miscellaneous Metal; metal framing and supports.
 - 2. Section 16100 – Electrical wiring.

1.3 DEFINITIONS

- A. Operation Cycle: One complete cycle of a door begins with the door in the closed position. The door is then moved to the open position and back to the closed position.

1.4 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide sectional overhead doors capable of withstanding the effects of gravity loads and the following loads and stresses without evidencing permanent deformation of door components:
 - 1. Wind Loads: Uniform pressure of 20 lbf/sq. ft., acting inward and outward.
- B. Operation-Cycle Requirements: Design sectional overhead door components and operator to operate for not less than 10,000 cycles.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.
- C. Shop Drawings: Submit shop drawing for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.6 QUALITY ASSURANCE

- A. Manufacturer: Sectional doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of sectional doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified..

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- B. Installer: Installation of sectional doors shall be performed by the authorized representative of the manufacturer.
- D. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturers of primary components.
- E. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.
- F. Listing and Labeling: Provide electrically operated fixtures specified in this Section that are listed and labeled.
 - 1. The Terms “ Listed” and “Labeled”: As defined in NFPA 70, Article 100.

PART 2 - PRODUCTS**2.1 ACCEPTABLE MANUFACTURER**

- A. Provide sectional doors by Overhead Door Corporation, Dallas, Texas; Telephone (800) 887-3667 or (972) 233-6611; Fax (972) 233-0367, or Equal as approved by Engineer.

2.2 INSULATED STEEL SECTIONAL DOORS

- A. Trade Reference: 422 Series Insulated Steel Doors by Overhead Door Corporation.
- B. Sectional Door Assembly: Insulated steel door assembly with rabbeted meeting rails to form weathertight joints and provide full-width interlocking structural rigidity. Units shall have the following characteristics:
 - 1. Panel Thickness: 2”
 - 2. Exterior Surface: Ribbed.
 - 3. Steel: Minimum 20 gauge galvanized exterior, back cover 26 gauge steel.
 - 4. Center and End Stiles: 16 gauge.
 - 5. Standard Springs: 10,000 cycles. (High cycles)
 - 6. Insulation: HCFC-free Isocyanurate, R-value 11.69.
 - 7. Partial Glazing of Steel Panels: Insulated double strength glass.
- C. Finish and Color: Factory-applied baked-on epoxy coating – color as selected by Owner from manufacturer’s standard colors.
- D. Windload Design: ANSI/NAGDM 102 standards and as required by code.
- E. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
- F. Lock: Interior mounted slide lock. (Provide interlock to operator to disable motor when locked).
- G. Weatherstripping: Flexible PVC on bottom section. Header seal and jamb weatherstripping.

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- H. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
- I. Electric Motor Operation: Provided UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
 - 1. Entrapment Protection: Photoelectric sensors.
 - 2. Operation Controls: Push-button operated control stations with open, close, and stop buttons for surface mounting, for interior location.

PART 3 - EXECUTION**3.1 PREPARATION**

- A. Take field dimension and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- B. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.3 ADJUSTING AND CLEANING

- A. Test sectional doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Touch-up damaged coatings and finishes, and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.
- C. Lubricated bearings and sliding parts; adjust doors to operate easily, free from warp, twist, or distortion and fitting weathertight for entire perimeter.
- D. Adjust belt-driven motors as follows:
 - 1. Use adjustable motor-mounting bases for belt-driven motors.
 - 2. Align pulleys and install belts.
 - 3. Tension belt according to manufacturer's written instructions.

END OF SECTION 08361