

SECTION 08301

OVERHEAD SECTIONAL DOORS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Furnish and install insulated overhead sectional doors with tracks, weather stripping, hardware and all appurtenances as required
- B. Related Requirements Specified Elsewhere
 - 1. Section 01340: Shop Drawings, Product Data, and Samples
 - 2. Section 01600: Materials and Equipment
- C. Additional Requirements Specified Elsewhere
 - 1. Section 04200: Unit Masonry
 - 2. Section 05500: Metal Fabrications
 - 3. Section 06100: Carpentry
 - 4. Section 08710: Finish Hardware
 - 5. Section 09900: Painting
 - 6. Section 13121: Prefabricated Metal Building

1.2 SUBMITTALS

- A. Shop Drawings and Product Data in Accordance with Section 01340
- B. Submit specifications and data describing all materials, parts, devices and accessories in sufficient detail to confirm compliance with specified requirements
 - 1. Dimensions
 - 2. Construction details
 - 3. Materials
 - 4. Installation instructions

1.3 DELIVERY, STORAGE AND HANDLING

- A. Store door and appurtenances in weatherproof enclosure

PART 2 - PRODUCTS

2.1 INSULATED OVERHEAD DOORS

- A. Design Basis
 - 1. Raynor Garage Doors, ThermaSeal Series
 - 2. Overhead Door Corporation, ThermaCore Series

3. Equivalent products of other manufacturers may be accepted subject to compliance with design, function, materials, and performance of the specified items

B. General Design

1. Size: As indicated on the Door Schedule shown on the Drawings
2. Wind load: Design and size door components to withstand pressure and section loads produced by 100 mph winds, unless otherwise noted on the Drawings
3. Rolled steel panel sections
 - a. Minimum sheet thickness: 20 gauge
 - b. Zinc coated
 - c. Provide manufacturer's standard heat-applied/cured polyester coating for corrosion-proof assembly
 - 1) Headworks Building
 - d. 2" nominal overall panel thickness
 - e. Rabbetted meeting rails forming weathertight joints and full-width interlocking structural rigidity
 - f. Sectional door panels may be constructed from nonmetallic materials provided equivalent function and characteristics are attained
4. Rolled steel back cover panels
 - a. Minimum sheet thickness: 26 gauge
 - b. Zinc coated
 - c. Provide manufacturer's standard heat-applied/cured polyester coating for corrosion-proof assembly
 - 1) Headworks Building
 - d. Sectional door panels may be constructed from nonmetallic materials provided equivalent function and characteristics are attained
5. Windows
 - a. Glazing to dimensions indicated on the Drawings
 - b. Glazing material: Single plane, acrylic or polycarbonate
 - c. Full perimeter weather seals
6. Insulation
 - a. Polystyrene, polyurethane or equal
 - b. Maximum U value of 0.14
 - c. Minimum R factor of 7.0
7. Tracks
 - a. Nominal 2" galvanized steel
 - 1) Type 304 stainless steel for Headworks Building and otherwise shown on Drawings
 - b. Vertical tracks angle mounted, unless otherwise indicated on the Drawings
 - c. Horizontal tracks reinforced with continuous angle according to door size and weight
 - 1) Type 304 stainless steel for Headworks Building and otherwise shown on Drawings
 - d. Provide low headroom mounting where required or as otherwise indicated on the Drawings

8. Galvanized steel hinges and fixtures complete with full floating ball bearing rollers with hardened steel races
 - a. Type 304 stainless steel for Headworks Building and otherwise shown on Drawings
9. Manual operator with interior pull rope or chain
10. Hardware
 - a. Standard hardware for inside latching
 - b. Lockable night latch and steel bar to engage track
 - c. Padlock hasp for locking approximately 3'-0" above finish floor
11. All tracks, hinges, fixtures, roller bearings, shafts, springs, supports, anchors, hardware, accessories and appurtenances shall be Type 304 stainless steel for sectional doors in the Headworks Building

C. Finish

1. Manufacturer's standard factory applied coating
 - a. Heat-applied and cured polyester coating for corrosion-proof assembly
 - b. Manufacturer's standard coating and finishes for nonmetallic sectional door panels subject to Owner and Engineer's acceptance

D. Supports

1. Provide necessary supplemental framing for support of tracks
2. Coordinate with building manufacturer as required
3. Provide stainless steel materials in Headworks Building for all doors and appurtenances

E. Weatherstripping

1. Weatherstripping shall form an effective seal against air infiltration around all sides of the door when closed
2. Floor seal: Flexible vinyl, U-type or double lip type held in place by an extruded aluminum retainer
3. Header seal: EPDM rubber or flexible vinyl held in place by a galvanized steel retainer attached to top door section
4. Jamb seal: Flexible vinyl blade held in place by an extruded aluminum retainer attached to the inside face of the jamb
5. Section joint seal: Neoprene foam rubber placed in the section joint

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install overhead steel doors according to manufacturer's instructions and approved shop drawings
- B. Adjust to work freely with all hardware functioning properly
- C. Readjust at completion of job as directed by Engineer

- D. Door, tracks and supports shall not interfere with any interior equipment and operation when in the open position

END OF SECTION