

SECTION 08 36 00

SECTIONAL METAL OVERHEAD DOORS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Section includes: Furnishing and installing sectional metal overhead doors.
- B. Related work in other sections:
 - 1. Doorframes - Section 05 50 00.
 - 2. Electrical wiring - Division 26.

1.02 WARRANTY

- A. The overhead door manufacturer shall warrant the overhead doors and operators to be free of defective materials and workmanship for a minimum period of one year from the date of Substantial Completion.
- B. In addition, the installed doors shall be warranted against rust penetration of the undamaged paint finish for a minimum period of two years from the date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Overhead Doors: Provide products by one of the following: Wayne-Dalton, Crawford, Raynor, or Overhead Door are acceptable.

2.02 FABRICATION

- A. Construction, Overhead Doors:
 - 1. Door sections: Nominal 2" thick constructed of not less than 26 gauge embossed steel faces permanently laminated to both sides of a high density polyurethane foam core. Section edges: Formed to provide a non-conductive thermal break between the inside and outside steel faces and provide an interlocking profile to insure a weathertight seal with the adjacent panel.
 - 2. Galvanized steel end caps: Sufficiently wide to accommodate double-end roller flanges. Seal panel ends with a waterproof mastic before applying. Provide steel reinforcing plates for all intermediate hinge and hardware attachment.
 - 3. Design and installed door and hardware to withstand a minimum wind loading of 20 psf. Provide U-channel or truss-type struts as necessary to eliminate bowing or sagging.
- B. Hardware:
 - 1. Overhead doors to have 25,000 cycle, oil tempered, helical wound torsion type springs on a solid steel shaft complete with bearing assemblies. Provide blocking inside spring to keep from sagging if necessary.
 - 2. Furnish inclined wedge type track assembly for standard lift operation. Power operated doors shall have 3" track with heavy-duty double-end roller hinges. 3" rollers shall have continuous steel rims with hardened ball bearings in case hardened inner and outer races with long stems.
 - 3. Overhead doors shall have a chain hoist for auxiliary manual operation.
- C. Weatherstripping: Furnish weatherstripping to meet or exceed code required air infiltration requirements. Weatherstripping shall, at a minimum, consist of a heavy-duty flap type jamb seal and head seal and U-shaped bottom astragal. Joints between door sections shall have a compressible bulb type gasket. Weatherstripping materials shall be PVC, EPDM or coated Neoprene designed for heavy duty, low temperature, high abrasion applications.
- D. Power Operators:
 - 1. Operators for overhead doors: Manufacturer's standard industrial duty drawbar type operator with belt or gear reducers and safety clutch.

2. Provide remove disconnects for emergency operation, extended to within 6 feet of floor using 5/32" diameter cable through a minimum of 2 eyelets with a 6" loop at the bottom end.
 3. Furnish one replacement set of belts for each operator.
- E. Controls: Overhead doors: Controlled by a surface mounted 3-button push control station with momentary contact open, stop and constant contact close.
- F. Safety Sensors:
1. Provide reverse edge and photo beam at all overhead doors.
- G. Exhaust Port: Provide a carbon monoxide exhaust port in each of the doors.

PART 3 EXECUTION

3.01 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sectional overhead doors. Refer to Section 01 79 00 Demonstration and Training.

END OF SECTION 08 36 00