

## 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

Provide products by one of the following:

- A. Crawford
- B. Raynor
- C. Overhead Door

##### 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**