

SECTION 08333

OVERHEAD COILING DOORS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes requirements for furnishing and installing the following:

1. Non-fire-rated overhead coiling service doors.

B. Related Sections:

1. Metal fabrications are specified in Section 05500.

2. Access doors and frames are specified in Section 08310.

1.02 SUBMITTALS

A. Product Data: Manufacturer's descriptive and technical data and illustrations.

B. Operating and Maintenance Instructions: Complete data for maintenance and operation.

1.03 QUALITY ASSURANCE

A. Manufacturer: Regularly providing assemblies of the type required for not less than 5-years, capable of maintaining, repairing, and servicing the Project location within reasonable time when service is called for by the Owner, and shall retain responsibility for installation of doors.

B. Wind Loading: Design and reinforce exterior overhead service doors to withstand a 20-psf wind loading pressure.

PART 2 - PRODUCTS

2.01 NON-FIRE-RATED ROLLING SERVICE DOORS

A. Approved Manufacturers: The Cookson Co. Type FCM or equal by Cornell Iron Works, Inc., Overhead Door, Pacific Rolling Door or approved equal.

B. Door Curtain: Fabricate curtain of flat-face interlocking galvanized steel sections with interlocked metal backing. Slats shall be filled with pressure foamed in place urethane insulation to provide curtain with a "U" factor of 0.158. Provide slats of material gauge recommended by door manufacturer for size and type of door required.

1. End Locks: Malleable iron castings galvanized after fabrication, secured to curtain slats with galvanized rivets. Provide end locks on alternate curtain slats for alignment and resistance against lateral movement.

2. Bottom Bar: Two galvanized steel back-to-back angles. Provide automatic reversing control on motor-operated doors.

B. Curtain Jamb Guides: Three steel angles with 3/8-inch bolts. Provide angles with legs of sufficient length to provide required clearances

C. Counterbalance: Counterbalance doors by means of adjustable steel helical torsion spring, mounted around a steel shaft and mounted in a spring barrel and connected to door curtain with required barrel rings. Provide mounting brackets of manufacturer's standard design, either cast iron or cold-rolled steel plate with bell mouth guide groove for curtain.

D. Hood: 24-gauge galvanized steel. Provide intermediate supports required to prevent excessive sag.

E. Finish: Galvanized steel curtain and hood shall have bonderizing, prime coat and thermosetting baked enamel finish in color to match color sample furnished by the Architect. Other exposed surfaces shall be finished with one coat of rust-inhibitive primer. Final finish as specified in Section 09900.

- F. Operation: Provide electric door operator assembly of size and capacity recommended by door manufacturer. Include electric motor and factory pre-wired motor control stations, control devices with keyed control buttons, conduit and wiring from controls to motor and central stations, and accessories required for operation. Provide safety strip along door bottom to automatically open the door if an obstruction is encountered and then automatically close. Provide hand-operated disconnect or a mechanism for automatically engaging a sprocket-and-chain operator and releasing brake for emergency manual operation. Key cylinders in operating controls are specified in Section 08710.
- G. Locking: Equip doors for padlocking from coil side unless otherwise directed by the Owner's representative.
- H. Weatherstripping: Provide vinyl strips on guides to seal against slats. Equip hood with air baffle to close space between top of hood and curtain.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install door and operating equipment with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports in accordance with manufacturer's instructions and as specified.
- B. Upon completion, lubricate, test and adjust doors to operate easily, free from warp, twist or distortion, and fitting weathertight.
- C. Exposed surfaces shall be clean and free from scratches, dents, tool marks, stains, discoloration, and other defects and damage.
- D. Train Owner's maintenance personnel on procedures and schedules related to door operation, servicing, and preventative maintenance.

END OF SECTION