

SECTION 08330 - OVERHEAD DOORS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes metal slat upward coiling doors and shutters, manually and electrically operated, not insulated, including unit sections, brackets, tracks, counter balance mechanisms, and hardware.
- B. Related Sections:
 - 1. Section 05500 – Miscellaneous Steel.

1.02 SUBMITTALS

- A. Product Data: Catalog cuts showing construction, features.
- B. Shop Drawings: Show dimensions, installation details, hardware, finishes, operation, work required by others.

1.03 REFERENCE STANDARDS

- A. Except as otherwise specified herein or shown on the Drawings, comply with the latest editions of all applicable codes and regulations including the applicable requirements of the following Reference Standards and Codes, which are hereby made a part of this Section, as they relate to the overhead doors.
 - 1. BOCA Building Code, 2001 Edition.
 - 2. The Occupational Health and Safety Administration (OSHA) Code of Federal Regulations(CFR), Volume 29.

1.04 QUALITY ASSURANCE

- A. Provide doors, tracks, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.05 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide doors capable of withstanding the effects of loads and stresses from wind and normal thermal movement without evidencing permanent deformation of components including slats, frames, and supports or permanent damage to fasteners and anchors.

1. Minimum Wind Load: Overhead doors shall be designed to meet or exceed wind pressures of 50 lb/sq.ft., acting inward or outward.
2. Thermal Movements: Provide doors that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, and other detrimental effects:
 - a. Temperature Change (Range): 120 deg F ambient; 180 deg F material surfaces.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

A. Aluminum and Metal Slat Upward Coiling Doors and Shutters:

1. The following manufacturers are accepted subject to requirements of this Section.
 - a. Atlas Door Corp.
 - b. Cookson Company
 - c. Cornell Iron Works, Inc.
 - d. Kinnear Division, Harsco Corp.
 - e. Mahon Door Corporation
 - f. J.G. Wilson Corp.

B. Equivalent products of other manufacturers which meet the requirements of the Drawings and this Section may be provided if approved by the Resident.

2.02 MATERIALS

A. Metal Slat Upward Coiling Doors and Shutters: Top coiling rolling service doors, inside face mounted, insulated, manually operated, lockable, with hood. Sizes as shown on Drawings.

1. Slats:
 - a. Metal Doors: Roll formed galvanized steel, interlocking, flat face, sections designed for 50 psf minimum wind-load, 22 ga., 2-3/4" high.
2. Operation:
 - a. Manual.
3. Endlocks: Rivet to ends of alternate slats.
4. Bottom Bar:

- a. Metal Doors: Bottom bar galvanized steel. Equip with vinyl weather-strip which extends into guides.
5. Guides: Rolled formed galvanized steel angles 1/8" thick, with vinyl weather seals and wind-lock bars. Attach to jambs or columns with 1/8" galvanized steel bolts spaced 24" maximum apart.
6. Counterbalance Assembly: Steel pipe shaft capable of carrying curtain load with maximum deflection of 0.03" per foot of curtain width, with helical torsion springs, ball bearings at support. Conceal in hood.
7. Locking: Latch at both ends of bottom bar. Equip doors for padlocking on secure side.
8. Hood:
 - a. Metal Doors: Galvanized steel
9. Finish:
 - a. Metal Doors: Phosphatized slats, hood, guides and other exposed surfaces for paint adhesion. Apply baked-on rust-inhibitive primer, gray. Powder coat finish. Color to be selected by the Resident.
 - b. Color: As selected by the Resident.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until satisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Installation shall be done by experienced journey mechanics authorized by the door manufacturer and in accordance with manufacturer's instructions and standards.
- B. Install doors and operating equipment plumb, in true alignment, free of springing, forcing, racking, or distortion
- C. Provide necessary hardware, jamb and head mold stops, anchors, inserts, hanger and equipment supports in accord with manufacturer's literature, as indicated and as specified.
- D. Upon completion of installation, lubricate, test and adjust doors to operate easily, and be free from warp, twist or distortion for the entire perimeter. Protect to prevent damage until date of substantial completion.

END OF SECTION