

SECTION 08 30 00 - SPECIALTY DOORS AND FRAMES

PART 1 - GENERAL

1.1 SYSTEM REQUIREMENTS

- A. Design Requirements:
 - 1. Provide insulating doors between exterior and interior conditioned space.
 - 2. Where sectional doors are required, provide aluminum sectional doors for glazed doors and insulated, galvanized steel sectional doors for opaque doors.
 - 3. Provide loading dock door operators with remote-control station equipped with momentary-contact, three push-button controls labeled "Open," "Close," and "Stop." Do not provide key operation.
- B. Performance Requirements:
 - 1. Basic Wind Speed, Exterior Doors: Project Specific. Operability under wind load is required.

PART 2 - PRODUCTS

2.1 OVERHEAD COILING DOORS

- A. Coiling Service Door
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, 610 Series Service Door or a comparable product by one of the following:
 - a. Cookson Company.
 - b. Cornell Iron Works, Inc.
 - c. Wayne-Dalton Corp.
 - 2. Service Door: Door curtain of interlocking metal slats, designed to withstand wind loading.
 - a. Steel Door Curtain Slats: Zinc-coated (galvanized), cold-rolled structural steel sheet; nominal sheet thickness (coated) of minimum 0.040 inch (20 gauge) and as required to meet requirements.
 - 3. Hood: Galvanized steel.
 - 4. Electric Door Operator: Standard duty, up to 60 cycles per hour.
 - a. Obstruction-detection device.
 - b. Remote-control station.
 - 5. Door Finish: Baked-enamel or powder-coated.
 - 6. Locking Devices: Where required, equip door with locking device assembly with interlock switch. Lock must accept small format (7-pin) interchangeable core.
- B. Insulated Coiling Service Door
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, 625 Series Insulated Service Door or a comparable product by one of the following:
 - a. Cookson Company.
 - b. Cornell Iron Works, Inc.
 - c. Wayne-Dalton Corp.
 - 2. Insulated Service Door: Door curtain of galvanized steel.
 - a. Insulated Steel Door Curtain Slats: Zinc-coated (galvanized), cold-rolled structural steel sheet; nominal face sheet thickness of minimum 0.034 inch (22 gauge) and back sheet thickness of 0.028 inch (24 gauge); fill slat cavity with CFC-free, foamed-in-place, polyurethane insulation.
 - 3. Hood: Galvanized steel.
 - 4. Electric Door Operator: Standard duty, up to 60 cycles per hour.
 - a. Obstruction-detection device.
 - b. Remote-control station.

5. Door Finish: Baked-enamel or powder-coated.
6. Locking Devices: Where required, equip door with locking device assembly with interlock switch. Lock must accept small format (7-pin) interchangeable core.

C. Fire-Rated Counter Door

1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, 640 Series Overhead Coiling Counter Fire Door or a comparable product by one of the following:
 - a. Cookson Company.
 - b. Cornell Iron Works, Inc.
 - c. Wayne-Dalton Corp.
2. Fire-Rated Counter Door: Door curtain of minimum 0.034 in (22 gauge) galvanized steel.
3. Fire Rating: Project specific.
4. Integral Frame, Hood, and Fascia for Counter Door: Galvanized steel.
5. Manual door operator.
6. Locking Devices: Equip door with locking device assembly.
 - a. Locking Device Assembly: Cremone type, both jamb sides locking bars, operable from inside and outside with mortise lock capable of accepting a small format (7-pin) interchangeable core.
7. Door Finish: Factory primed.

2.2 OVERHEAD COILING GRILLES

A. Open-Curtain Security Grille Assembly

1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, 670 Series Upcoiling Security Grille, or comparable product by one of the following:
 - a. Cookson Company.
 - b. Cornell Iron Works, Inc.
2. Overhead Coiling Grille: Curtain having a network of horizontal rods that interconnect with vertical links.
3. Hood: Aluminum.
4. Electric Grille Operator: Standard duty, up to 60 cycles per hour.
 - a. Obstruction-detection device.
 - b. Cylinder lock for electric operation with interlock switch; capable of accepting a small format (7-pin) interchangeable core.
5. Aluminum Finish: Clear anodized.

2.3 SECTIONAL DOORS

A. Steel Door Assembly

1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, Series 418 Insulated Steel Sectional Door or a comparable product by one of the following:
 - a. Raynor.
 - b. Wayne-Dalton Corp.
2. Steel Sections: Zinc-coated (galvanized) steel sheet with minimum G60 zinc coating; G90 preferred.
 - a. Section Thickness: 2 inches.
 - b. Exterior-Face, Steel Sheet Thickness: 0.064-inch- (16 gauge) nominal coated thickness.
 - 1) Surface: Flat.
 - c. Insulation: Foamed in place, expanded polystyrene.
 - d. Interior Facing Material: Zinc-coated (galvanized) steel sheet of 0.022-inch- (26 gauge) nominal coated thickness.
3. Foamed-in-Place Thermal Insulation: Insulate interior of steel sections with door manufacturer's standard CFC-free polystyrene insulation, foamed in place to completely fill interior of section and pressure bonded to face sheets to prevent delamination under wind load.

4. Weatherseals.
 5. Electric Door Operator: Standard duty, up to 60 cycles per hour.
 - a. Obstruction-detection device.
 - b. Remote operation station with open, close and stop controls; if keyed must accept small format (7-pin) interchangeable core.
 6. Door Finish: Factory primed; field painted.
- B. Aluminum Door Assembly
1. Basis-of-Design Product: Subject to compliance with requirements, provide Overhead Door Corporation, Series 521 Aluminum Sectional Overhead Door or a comparable product by one of the following:
 - a. Raynor.
 - b. Wayne-Dalton Corp.
 2. Aluminum Sections: Full vision, fabricated from 1-3/4 inch-thick, 6063-T6 aluminum sections glazed with 1/2 inch thick clear insulating glass.
 3. Weatherseals.
 4. Electric Door Operator: Standard duty, up to 60 cycles per hour.
 - a. Obstruction-detection device.
 - b. Remote operation station with open, close and stop controls; if keyed must accept small format (7-pin) interchangeable core.
 1. Door Finish: Baked-enamel or powder-coat finish, AAMA 2603.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 08 30 00