

SECTION 08 33 23 – OVERHEAD COILING DOORS

PART 1 - GENERAL

1.1 QUALITY ASSURANCE

- A. Furnish overhead coiling door units by one manufacturer.
- B. Wind Loading: 20 psf (85 mph).

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products of Overhead Door Corporation are specified to establish type, function and quality required. Products of the following manufacturers are also acceptable, contingent upon furnished products which are equivalent to or exceed the quality specified:
 - 1. Atlas Roll-Lite.
 - 2. Ceco/Windsor Door
 - 3. The Cookson Company.
 - 4. North American Rolling Door Inc.
 - 5. Kinnear Division of Harsco Corp.
 - 6. Raynor Manufacturing Co.

2.2 ROLLING SERVICE DOORS

- A. Overhead Door Corporation "610 Series" or equal for interior applications.
- B. Overhead Door Corporation "620 Series" "Stormtite" or equal for exterior applications.
- C. Door Curtain: Type F265 interlocking flat slats, fabricated of 20-gage (minimum) phosphatized, G90 zinc coated steel with endlocks and windlocks.
- D. Accessories:
 - 1. Crank operation
 - 2. Galvanized steel bottom bar angles (exterior locations only)
 - 3. Powder coat paint finish from manufacturer's standard colors.

2.3 FIRE RATED ROLLING SERVICE DOORS

- A. Overhead Door Corporation "630 Series" or equal for interior applications
- B. Provide fire door assemblies which comply with NFPA No. 80 and have been fire tested, rated and labeled in accordance with ASTM E 152.

- C. Automatic Closing: Provide automatic closing device and governor, operating when activated by temperature rise and melting of 160 degrees F (71 degrees C) fusible link.
- D. Provide governor device in all automatic-closing doors to control rate of descent. Governor device shall be factory, or field, adjustable to set descent rate to the minimum (slowest) allowed by the requirements of NFPA 80. Accessories:
 - 1. Crank operation
 - 2. Powder coat paint finish from manufacturer's standard colors
- E. Provide UL Listed time delay release device designed to delay closing of fire doors for 10 seconds after alarm signal or power loss: Overhead Door Corporation "Fire Sentinel Model B2" or equal.
- F. Door Curtain: Type C275 interlocking slats, fabricated of 20-gage (minimum) phosphatized, zinc coated steel. Provide endlocks and bottom bar in accordance with UL requirements.

2.4 COUNTERBALANCING MECHANISM

- A. Counterbalance doors by means of adjustable steel helical torsion spring, mounted around a steel shaft and in a spring barrel, and connected to door curtain with required barrel rings. Use grease sealed bearings or self lubricating graphite bearings for rotating members.
- B. Hood: Form to entirely enclose coiled curtain and operating mechanism at opening head and act as weather seal. Contour to suit end brackets to which hood is attached. Roll and reinforce top and bottom edges for stiffness. Provide closed ends for surface mounted hoods and any portion of between jamb mounting projecting beyond wall face. Provide intermediate support brackets as required to prevent sag.
 - 1. Fabricate steel hoods for doors of not less than 0.0276 inch thick (24-gage) hot dip galvanized steel sheet with G 90 zinc coating, complying with ASTM A 525.
 - 2. Furnish automatic drop baffle to guard against passage of smoke or flame.
 - 3. Fabricate aluminum hoods for aluminum doors of Alloy 3003 or 5052 aluminum sheet not less than 0.032 inch thick, mill finish.

2.5 PRIME PAINTING

- A. Shop clean and prime ferrous metal and galvanized surfaces, exposed and unexposed, except tightly joined and lubricated surfaces, with door manufacturer's standard rust inhibitive primer. Use primer that is compatible with finish painting.

2.6 MANUAL DOOR OPERATION

- A. Manual Push Up Operation: Design counterbalance mechanism so that required lift or pull for door operation does not exceed 25 pounds.
 - 1. Provide galvanized steel lifting handle and slide bolt lock on inside bottom bar.

2.7 ELECTRIC DOOR OPERATORS

- A. When required furnish electric door operator assembly of size and capacity recommended and provided by door manufacturer; complete with electric motor and factory prewired motor controls, gear reduction unit, solenoid operated brake, remote control stations, control devices, conduit and wiring from controls to motor and central stations, and accessories required for proper operation.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install fire rated doors to comply with NFPA 80.
- B. When installing overhead coiling doors, coordinate location with accompanying air curtain devices. It is preferred that the air curtain device be installed directly adjacent the overhead coiling door, provided there is no conflict with the operations and maintenance of the overhead coiling door.
- C. After completing installation, including work by other trades, lubricate, test, and adjust doors to operate easily, free from warp, twist, or distortion.
 - 1. Test door closing when activated by smoke detector fire release system. Reset door closing mechanism after successful test.

END OF SECTION **08** 33 23

This section of the *U of I Facilities Standards* establishes minimum requirements only.
It should not be used as a complete specification