

STANDARD SPECIFICATION  
JANUARY 2010

**DIVISION 8**

**SECTION 8H ROLLING SERVICE DOORS**

8H.01 GENERAL: Comply with all of the Contract Documents.

8H.02 SCOPE OF WORK: Refer to "Division Scope of Work"

**8H.03 WORK NOT INCLUDED**

A. The following items are excluded from the work of this Section:

1. Steel lintels by Section 5A.
2. Electrical wiring by Section 16A

**8H.04 SUBMITTALS**

A. Shop drawings with plans, elevations, details, and product data shall be submitted for Architect/Engineer approval prior to fabrication.

**8H.05 MATERIALS AND WORKMANSHIP**

A. Steel rolling service doors are to be manufactured by City-Gates Mfg. Corp., or approved equal as determined by Architect/Engineer.

B. Curtains to be composed of interlocking cold rolled steel slats, designed to withstand a windload of 20 lbs. per sq. ft. Windlocks to be applied where required by opening span or greater windload. For doors up to 14'-0" wide, slats to be 22 ga., from 14'-0" to 18'-6" wide slats to be 20 ga., over 18'-6" wide, slats to be 18 ga. Galvanized steel slats to be from hot-dipped strips with 1.25 oz./sq. ft. zinc coating in accordance with ASTM A 525-80 and phosphate coated for paint adhesion.

1. Galvanized or painted steel slats to be:
  - a. C-slats – solid,
  - b. F-slats – perforated with .062 diameter openings on .094 staggered centers allowing air and light to pass through without sacrificing security.
  - c. Each curtain shall be reinforced with a bottom bar consisted of two structural steel angles.

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- C. Galvanized steel roll-formed guides shall be attached to continuous steel wall angles, minimum 3/16" thick. The depth of the each guide is to provide adequate slat penetration to satisfy specified windload. Guides to be assembled with 3/8" diameter bolts spaced not over 3'-0" on centers.
- D. Spring counterbalance shall be housed in a steel pipe of diameter and wall thickness to restrict maximum deflection to .03" per foot of door width. Springs to be helical torsion type, designed to include and overload of 25% and for optimum use of operation. Springs are to be greased packed and are to be mounted on a cold rolled steel inner shaft. Spring tension shall be adjustable from outside of end bracket plate. Furnish sealed ball bearings to minimize wear of pipe shaft rotation around inner shaft.
- E. End bracket plates carrying pipe counterbalance shaft shall be of steel plate not less than 1/4" thickness. The drive end bracket plate shall be fitted with a sealed ball bearing. Plates are to house ends of each door coil.
- F. Hoods to house each coil shall be fabricated of hot galvanized phosphate treated steel sheet metal no lighter than #24 U.S. gauge, formed to fit brackets, and reinforced top and bottom with stiffening returns, with intermediate hood supports where required by door width.
- G. Locking provisions to be; slide bolts on push up doors, chain holder on chain doors and self-locking gearing on motor operated doors.
- H. Finish for steel surfaces shall be shop coat of rust inhibiting metal primer and a field coat of gloss alkyd enamel color as selected by Architect/Engineer, except on galvanized surfaces.
- I. Installation shall be by manufacturer or his authorized representative.

8H.06 OPERATION

- A. Operation shall be:
  - 1. Manual push-up: with maximum limitations for overall sizes and square footage of the door/gate opening. Lift handles on bottom bar and pole with hook shall be provided.
    - a. Clear opening width, not to exceed - 12'-0".
    - b. Clear opening height, not to exceed - 10'-0".
    - c. Clear opening, (width x height) - 120 Sq.Ft. (max)
  - 2. Manual Chain Hoist: Chain hoist operator with endless steel chain, chain pocket wheel and guard, geared reduction unit, and chain keeper secured to the guide for doors over 120 Sq.Ft.

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3. Motor Operated: UL listed electric door operator assembly of size and capacity recommended by door manufacturer, complete with electric motor and factory pre-wired motor controls, positive self-locking mechanical brake or solenoid actuated holding, emergency manual chain hoist, 3-button "OPEN / CLOSE / STOP" control station (inside) and key switch (outside)
4. Type of the rolling service door slats and type of operation shall be chosen by Architect/Engineer and indicated in Scope of Work.

8H.07 CLEANING

- A. All surfaces soiled by work shall be cleaned as recommended by manufacturer.
- B. Remove surplus materials and debris from the job site.

8H.08 GUARANTEES

- A. Guarantee all items of work furnished and installed under this Section for (1) one year, in addition to manufacturer's standard warranties. All guarantees to be from the date, when **Final Certificate of Occupancy** is issued from Department of Buildings.

END OF SECTION