

CITY-GATES USA CSI FORMAT

Specifications

COILING DOORS AND GRILLES -- SPECIFICATIONS

CITY-GATES USA 15-20 129th St College Point New York 11356 tel 718-939-9700 fax 718-353-0724 manufactures a complete line of overhead coiling service doors, insulated doors, UL Approved fire doors, counter shutters (UL Approved labeled and non-labeled), counter shutters and rolling grilles. These doors are available in manual, chain and motor operated.

NOTE: SECTION 08330 - COILING DOORS AND GRILLES

PART 1 GENERAL

1.1 SECTION INCLUDES NOTE ** Delete items below not required for project.

- A. Overhead coiling service doors, high stress.
- B. Overhead coiling service doors, weather sealed.
- C. Overhead coiling service doors insulated
- D. Overhead coiling service doors.
- E. Overhead coiling service doors, economy torsion spring.
- F. Overhead coiling grilles, aluminum and PVC.
- G. Overhead coiling grilles, aluminum.
- H. Overhead coiling fire doors.
- I. Overhead coiling counter fire shutters.
- J. Overhead coiling counter shutters.
- K. Overhead coiling service doors economy box spring.
- L. Motor operators.
- M. Accessories.

1.2 RELATED SECTIONS

NOTE ** Delete any sections below not relevant to this project; add others as required A. Section 05120 - Structural Steel.

- B. Section 08710 - Finish Hardware: Padlocks and lock cylinders.
- C. Section 08310 - Access Doors and Panels.
- D. Section 09900 - Paints and Coatings.
- E. Section 16150 - Wiring Connections: Electrical wiring, conduit, and disconnects.

1.3 REFERENCES

NOTE ** Delete references from the list below that are not actually required by the text of the edited section.

- A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanneal) by the Hot-Dip Process.
- B. NFPA 70 - National Electrical Code.
- C. NFPA 80 - Fire Doors and Windows.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide manufacturer's standard details and catalog data. Provide installation instructions.
- C. Shop Drawings: Submit for approval the following:
 - 1. Shop drawings for the fabrication and installation of curtains and frames. Include details of each frame type, elevations, conditions at openings, details of construction, location, installation requirements of finished hardware and reinforcements, and details of joints and connections.
 - 2. Schedule openings using same reference numbers for details and openings as those on the drawings.
- D. Advise the Architect in writing should any doors be ineligible for standard fire resistance labels due to door size, hardware, vision openings, or other features required by the Contract Documents.
- E. Submit manufacturer's recommended operation, cleaning, and maintenance instructions.

1.5 QUALITY ASSURANCE

NOTE ** Delete the following paragraph if rated doors are not required. Delete any of the laboratories that are not acceptable to the authorities of the project jurisdiction.

- A. Fire Rated Assemblies: Tested by one of the following and bearing label indicating conditions of use:
 - 1. Underwriters Laboratories, Inc.
 - 2. Factory Mutual.
 - 3. California State Fire Marshal.

4. Underwriters Laboratories of Canada.

5. Warnock-Hersey.

NOTE ** Delete the following paragraph if rated doors are not required. Delete any of the codes (or laboratories) that are not applicable to the project jurisdiction.

B. Smoke Doors: Comply with requirements of the following:

1. ICBO Uniform Building Code.

2. BOCA National Building Code.

3. SBCCI Standard Building Code.

4. Underwriters Laboratories, Inc.

5. Factory Mutual.

6. California State Fire Marshal.

7. Underwriters Laboratories of Canada.

8. Warnock-Hersey.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products indoors and protect from moisture, construction traffic, and damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Provide products fabricated by CITY-GATES USA 15-20 129th St College Point NY 11356 tel 718-939-9700 fax 718-353-0724 ** Each of the articles below describes a distinct type of door or grille. Delete those articles that are not required for the project. For each option, delete all but one description. If more than one type of a particular option is required, edit to describe where each is to be used.

2.2 OVERHEAD COILING SERVICE DOORS, ECONOMY TORSION SPRING

A. Provide "CG600" Model Economy Torsion Spring Doors.

1. Operation: Push-up.

2. Operation: Hand chain.

3. Operation: Hand-crank.

4. Operation: Motor operator.

5. Mounting: Interior face mounted on prepared opening.

6. Mounting: Interior mounted between jambs and under lintel in a prepared opening.

7. Mounting: Exterior face mounted on prepared opening.

B. Curtain:

1. Slat material: Galvanized steel, G90/2275 coating, Structural Quality grade C, ASTM A 653/A 653M.

2. Slat finish: Mill phosphatized.

3. Slat finish: Baked enamel paint.

4. Slat shape: 4 inch clam.

5. Slat shape: 3 inch clam.

6. Slat gage: Not less than 22 gage.

7. Slat gage: Not less than 20 gage.

8. Slat gage: Not less than 18 gage.

9. Slat gage: Not less than 16 gage.

10. End locks: Cast iron, hot dipped galvanized, riveted to the ends of alternate slats with 3/16-inch rivets.

NOTE ** Weather stripping on bottom bar of this door is optional.

11. Bottom bar: Reinforce curtain bottom with a single galvanized steel angle, ASTM A 653/A 653M, provided with vinyl weather-stripping which extends into guides.

C. Hood:

1. Material: 24 gage galvanized steel.

2. Shape: Hexagon (standard).

3. Shape: Round.

4. Shape: Square.

5. Finish: Same as for curtain.

6. Finish: Mill finish.

7. Finish: Mill phosphatized.

8. Finish: Baked enamel paint.

D. Locking:

1. Slide bolt locks on bottom bar, suitable for padlocks on coil side.
2. Hasp & Pin locks.

2.3 COMPONENTS

NOTE ** Delete all of the following components that are not required for any doors or grilles on the project.

A. Overhead Coiling Door/Counter Shutter/Grille Counterbalances:

1. Counterbalance: Housed in a steel pipe of diameter and wall thickness to restrict maximum deflection to 0.03 inch per foot of door width.
2. Springs: Helical torsion springs designed to include an overload factor of 25 percent and for optimum ease of operation; grease packed and mounted on a cold rolled steel inner shaft.
3. Spring tension: Adjustable from outside of end bracket plate, except on integral frame construction.
4. Ball bearings: Sealed to minimize wear of pipe shaft rotation around inner shaft.
5. Motorized Doors: High cycle springs to satisfy up to 100,000 cycles.

NOTE ** Below applies only to economy box spring door (CG600 Model)

6. Box spring: Flat blue steel spring wrapped around a 2-inch pipe shaft and mounted into a spring box.

B. Overhead Coiling Door/Counter Shutter/Grille Bracket Plates:

NOTE ** 3/16 inch is standard, double doors are 1/4 inch, and economy box spring door is 13 gage. Edit below to conform to project requirements.

1. Bracket plates carrying pipe-counterbalancing shaft: Steel plate not less than 3/16-inch thickness; houses ends of door coil.
2. Drive end bracket plate: Fitted with a sealed ball bearing.

C. Overhead Coiling Door Guide and Wall Angle Assemblies, unless otherwise indicated:

NOTE ** 3/16 inch steel angle is common for most doors, however, some doors require heavier angles and some use lighter angles or stamped steel sheet.

1. Structural steel angles; 3/16-inch minimum thickness.
2. Depth to provide adequate slat penetration to satisfy specified wind loading or fire rating, as applicable.

D. Stop Lock Bearings: Prevent door/grille from falling completely to floor in event of damage to spring counterbalance or pipe shaft.

NOTE ** Edit pass door dimensions to suit project requirements if custom size is required.

E. Pass Door: 3-foot by 7-foot hollow metal pedestrian door within rolling door. Hollow metal doorframe hinged to rolling door guide so that frame and metal door will swing clear of opening. Provide heavy duty hinges and lock set with cylinder lock outside and night latch inside.

F. Overhead Coiling Door/Grille Hoods:

1. Laterally reinforced to prevent sag.
 2. Intermediate hood supports: Furnish where door width exceeds 16 feet.
- NOTE ** The next two items are options.
3. Internal baffle: Furnish PVC baffle to prevent outside air from entering the building through the hood.
 4. Heated hood baffle: Furnish a heated hood baffle to prevent ice build-up.

2.4 MOTOR OPERATED UNIT COMPONENTS

NOTE ** Consult manufacturer's literature for recommended operators for each type and size of door or grille, and for mounting positions of operators. In-tube motors (not listed below) are now available on certain models.

NOTE **

NOTE ** Where several types and sizes of doors and grilles are specified, specify or schedule the required operator models for each type and size of door or grille.

NOTE **

NOTE ** Consult manufacturer for special electrical controls available, such as keyed, treadle, or pull cord operating stations, and watertight, oil-tight, and explosion proof components.

A. Motor Operators: Model _____.

B. Sensor Edge:

1. Cable edge.
2. Electric edge: Foam rubber astragal with vinyl-coated nylon cover, continuous foil tape electrical contacts.
3. Pneumatic edge: Neoprene astragal with air hose.

C. Panic Release Device: Allow emergency egresses for motor operated units; comply with ADA requirements.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that dimensions are correct and project conditions are in accordance with manufacturer's installation instructions; do not proceed with installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

A. Install units in accordance with manufacturer's instructions.

B. Ensure that units are installed plumb and true, free of warp or twist, and within tolerances specified by manufacturer for smooth operation.

C. Install electrical components in accordance with NFPA 70.

NOTE ** Delete the following article if no fire or smoke rated doors are required.

3.3 RATED DOORS

A. Install doors in accordance with requirements of tested assembly.

B. Drop test doors after installation. Notify the Architect prior to testing.

NOTE ** Delete the following paragraph if no fire rated doors are required.

C. Fire Rated Doors/Shutters: Install in accordance with NFPA 80.

3.4 DEMONSTRATION

A. Instruct the Owner's personnel in correct operation and maintenance of units.

3.5 ADJUST AND CLEAN

A. Clean units in accordance with manufacturer's instructions.

B. Restore slight blemishes in finishes in accordance with manufacturer's instructions to match original finish. Remove and provide new units where repairs are not acceptable to the Architect.