

SECTION 08340
SECURITY GRILLES
671 Series Overhead Coiling Grilles

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the work of this Section.

1.02 SUMMARY

- A. The work of this Section includes overhead-coiling security grilles.
- B. Related Sections: Other specification sections which directly relate to the work of this Section include, but are not limited to, the following:
 - 1. Section 08710 - Finish Hardware; key cylinders for locks.
 - 2. Section 16100 - Electrical; wiring.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each type of security grille. Include both published data and any specific data prepared for this project.
- B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Security grilles shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of security grilles. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
- B. Installer: Installation of security grilles shall be performed by an authorized representative of the manufacturer.
- C. Single-Source Responsibility: Provide grilles, guides, motors, and related primary components from one manufacturer for each type of grille. Provide secondary components from source acceptable to manufacturer of primary components.
- D. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. Provide security grilles by Overhead Door Corporation, Pennsylvania Division; Telephone 800-929-2553 or 717-248-0131; Fax 800-929-1274.

2.02 SECURITY GRILLES

- A. Trade Reference: 671 Series Overhead Coiling Grilles by Overhead Door Corporation.
- B. Curtain: Horizontal 5/16" diameter rods with network of vertically interlocking links to form a pattern. Bottom bar shall be an extruded aluminum tubular shape.
1. Material: Galvanized steel.(Stainless steel.)
 2. Vertical Rod Spacing: 2"(1-1/2") on center.
 3. Horizontal Link Spacing: 9"(6")(3") on center.
 4. Pattern: Straight lattice.(Brick pattern; horizontal spacing 4-1/2" on center.)
 5. Infill Panels: Lexan panel in straight lattice pattern 12" on center.
- C. Finish: Components shall have the following finish. All non-galvanized, exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
1. Stainless Steel: No. #4 finish.
 2. Galvanized Steel: Rust inhibitive primer.
- D. Guides: Extruded aluminum shapes with retainer grooves with continuous silicone treated wool-pile strips or PVC inserts to reduce noise and assist operation.
- E. Brackets: Minimum 3/16" steel to support barrel and counterbalance. (and hood.)
- F. Counterbalance: Helical torsion spring type. Counterbalance shall be housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03" per foot of span. Counterbalance shall be adjustable by means of an adjusting tension wheel.
- G. Hood: Galvanized steel, 24 gauge (Primed steel, 24 gauge)(Aluminum) hood with intermediate supports as required. (Not required, installation above ceiling.)(Stainless steel hood.)
- H. Manual Operation: Manual push up.(Chain hoist.)(Crank operation.)
- I. Electric Motor Operation: Provide UL listed electric operator, size as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
1. Sensing Edge Protection: (Pneumatic sensing edge.)(Electric sensing edge.)
 2. Operator Controls: Push-button (Key)(Push-button and key) operated control stations with open, close, and stop buttons for surface (flush) mounting, for interior (exterior) (both interior and exterior) location.
 3. Emergency Egress Device: Interior flush mounted handle mechanism to automatically open grille part way to permit passage even if power is not available.
 4. Special Operation: (Vehicle detector operation, radio control operation, card reader control, photocell operation, door timer operation, commercial light package, explosion and dust ignition proof control wiring.)
- J. Locking: (Cremone lock.)(Chain keeper locks for chain hoist operation.)(Cylinder lock for electric operation with interlock switch.)(Thumb turns.)
- K. Framing: (Guides face mounted on adjacent construction.)(Free standing tubular steel support frames supplied with grilles.)

Options are in parentheses.



PART 3 - EXECUTION 3.01 PREPARATION

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- B. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test security grilles for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

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