

083400 - OVERHEAD COILING GRILLE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Conditions of the contract and Division 1 apply to this section.
- B. Provide all labor, materials and equipment to complete overhead coiling grille work as outlined in the Contract Documents.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. All documents listed in Table of Contents are a Condition of this Section.

1.3 SUBMITTALS

- A. Refer to Section 01300 for Submittal Requirements.
- B. 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.
- C. 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.

1.4 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.

1.5 PRODUCT 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

2.1 MATERIALS

A. Acceptable Manufacturers:

1. Overhead Door Corporation of Dallas, Texas.
2. Southwestern Steel Rolling Door Company of Dallas, Texas.
3. Atlas Door Corporation of Edison, New Jersey.
4. Cornell Iron Works

B. Security Grilles

1. Trade Reference: 670 Series Overhead Coiling Grilles by Overhead Door Corporation.
2. Curtain: Horizontal 5/16" diameter rods with network of vertically interlocking links a form a pattern. Bottom bar shall be an extruded aluminum tubular shop.
 - a. Material: Aluminum
 - b. Vertical Rod Spacing: 2" on center.
 - c. Pattern: Brick pattern; horizontal spacing 4-1/2" on center.
3. Finish: Components shall have the following finish. All non-galvanized, exposed ferrous surfaces shall receive one coat of rust-inhibitive primer.
 - a. Aluminum: See Architectural Finishes List.
4. Guides: Extruded aluminum shapes with retainer grooves with continuous silicone treated wool-pile strips or PVC inserts to reduce noise and assist operation.
5. Brackets: Minimum 3/16" steel to support barrel and counterbalance and hood.
6. Counterbalance: Helical torsion spring type. Counterbalance shall be housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.30" per foot of span. Counterbalance shall be adjustable by means of an adjusting tension wheel.
7. Hood: Custom painted.
8. Operation: Motorized, remote keycard reader.
9. Electric sensing edge with reversing
10. Framing: Guides face mounted on adjacent construction.

PART 3 - EXECUTION

3.1 INSPECTION

- 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.

3.2 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.

3.3 ADJUST AND CLEAN

- 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.
- C. Clean premises of all litter, dirt and debris created by work of this Section. Leave premises broom clean.

END OF SECTION 083400