



SECTION 08 33 00
SECURITY GRILLES
MODEL 674 OVERHEAD COILING METAL GRILLES

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PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER ** Delete items below not required for project.**

- A. Upcoiling Security Grilles, manually operated.
- B. Upcoiling Security Grilles, power operated.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER ** Delete any sections below not relevant to this project; add others as required.**

- A. Section 05500 - Metal Fabrications: Support framing and framed opening.
- B. Section 06200 - Finish Carpentry: Wood jamb and head trim.
- C. Section 08332 - Overhead Coiling Counter Doors.
- D. Section 08710 - Door Hardware: Product Requirements for cylinder core and keys.
- E. Section 16130 - Raceway and Boxes: Conduit from electric circuit to grille operator and from grille operator to control station.
- F. Section 16150 - Wiring Connections: Power to disconnect.

1.3 REFERENCES

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

- A. [ASTM A 653](#) - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. [ASTM A 666](#) - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- C. [ASTM A 924](#) - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- D. [ASTM B 221](#) - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. [NEMA 250](#) - Enclosures for Electrical Equipment (1000 Volts Maximum).

- F. [NEMA ICS 2](#) - Industrial Control and Systems: Controllers, Contactors, and Overload Relays, Rated Not More Than 2000 Volts AC or 750 Volts DC.
- G. [NEMA MG 1](#) - Motors and Generators.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

**** NOTE TO SPECIFIER ** Delete selection samples if colors have already been selected.**

- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in performing Work of this section with a minimum of five years experience in the fabrication and installation of security closures.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum three years and approved by manufacturer.

**** NOTE TO SPECIFIER ** Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.**

- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Install in areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and installation is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to moisture. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

1.7 COORDINATION

- A. Coordinate Work with other operations and installation of adjacent finish materials to avoid damage to installed materials.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: info@overheaddoor.com.

**** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 UPKOILING SECURITY GRILLES

- A. Overhead Coiling Aluminum Grilles: Overhead Door Corporation Model 674 for interior applications only.
 - 1. Curtain: Aluminum frame surrounding and capturing .062" (1.57 mm) thick perforated aluminum panels. Perforations shall be 3/16" (4.76 mm) diameter; holes are spaced 7/32" (5.56 mm) apart.
 - a. Material: Aluminum.
 - 2. Finish:

**** NOTE TO SPECIFIER ** Select the finish required from the following two paragraphs and delete the paragraphs not required. Clear Anodized is standard.**

- a. Aluminum clear anodized.
- b. PowderGuard Premium: Weather resistant polyester powder coat color as selected by the Architect.
- c. Prime all non-galvanized, exposed ferrous surfaces with black powder coat finish.
- 3. Bottom Bar:
 - a. Extruded aluminum, clear anodized.
- 4. Guides:
 - a. Extruded aluminum shapes with retainer grooves and continuous silicone treated wool-pile strips or PVC inserts to reduce noise and assist operation.
- ** NOTE TO SPECIFIER ** Select the guides mounting required from the following paragraphs and delete the paragraph not required.**
 - b. Guides face mounted on adjacent construction.
 - c. Guides free standing with tubular steel support frames supplied with grilles.
- 5. Brackets: Minimum 3/16 inch (4.8 mm) steel to support barrel, counterbalance and hood as applicable.
- 6. Counterbalance: Helical torsion spring type housed in a steel tube or pipe barrel, supporting the curtain with maximum deflection of 0.03 inches per foot of span. Counterbalance adjustable by means of an adjusting tension wheel.

**** NOTE TO SPECIFIER ** Select the hood type required from the following paragraphs and delete the paragraphs not required. Delete if not required for installation above ceiling.**

7. Hood:
 - a. Galvanized steel, 24 gauge (6 mm) .
 - b. Primed steel, 24 gauge (6 mm) .
 - c. Aluminum with intermediate supports as required.

**** NOTE TO SPECIFIER ** Select manual or electric operation as required from the following paragraphs and delete the paragraphs not required.**

8. Manual Operation:

**** NOTE TO SPECIFIER ** Select the manual operation required from the following paragraphs and delete the paragraphs not required.**

- a. Push up.
 - b. Chain hoist.
 - c. Crank.
9. 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.

**** NOTE TO SPECIFIER ** Select the edge protection required from the following paragraphs and delete the paragraph not required.**

- a. Sensing Edge Protection:
 - 1) Electric sensing edge.
- b. Operator Controls: Control stations with open, close, and stop functions.

**** NOTE TO SPECIFIER ** Select the operation required from the following paragraphs and delete the paragraphs not required.**

- 1) Push-button operation.
- 2) Key operation.
- 3) Push-button and key operation.

**** NOTE TO SPECIFIER ** Select the control mounting type required from the following paragraphs and delete the paragraph not required.**

- 4) Surface mounting.
- 5) Flush mounting.

**** NOTE TO SPECIFIER ** Select the special operation type required from the following paragraphs and delete the paragraphs not required. Delete entirely if special operation is not required.**

- c. Special Operation:
 - 1) Vehicle detector operation.
 - 2) Radio control operation.
 - 3) Card reader control.
 - 4) Photocell operation.
 - 5) Door timer operation.
 - 6) Commercial light package.
 - 7) Explosion and dust ignition proof control wiring.

10. Locking:

**** NOTE TO SPECIFIER ** Select the locking type required from the following paragraphs and delete the paragraphs not required.**

- a. Center locking bottom bar, secures grille with 1/2" diameter steel throw rods.
 - 1) Cylinder locks both sides.
 - 2) Thumb turn on secured side.
- b. Cylinder lock for electric operation with interlock switch.
- c. Small format interchangeable core.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify opening sizes, tolerances and conditions are acceptable.

- B. Examine conditions of substrates, supports, and other conditions under which this work is to be performed.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.

**** NOTE TO SPECIFIER ** Select the following paragraph for electric operation of grilles and delete if not required.**

- E. Coordinate installation of electrical service with Section 16150. Complete wiring from disconnect to unit components.
- F. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07900.
- G. Install perimeter trim and closures.

3.4 ADJUSTING

- A. Test security grilles for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Adjust hardware and operating assemblies for smooth and noiseless operation.

3.5 CLEANING

- A. Clean curtain and components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 PROTECTION

- A. Protect installed products until completion of project.

END OF SECTION